

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
MINERALS MANAGEMENT SERVICE  
OIL & GAS OPERATIONS  
RECEIVED  
OCT 15 1982

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

## b. TYPE OF WELL

OIL  
WELL ☒GAS  
WELL ☐

OTHER

SALT LAKE CITY, UTAH  
SINGLE  
ZONE ☒MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

Raymond T. Duncan

## 3. ADDRESS OF OPERATOR

1777 South Harrison Street, Penthouse One, Denver, CO 80210

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface

1690' FSL &amp; 1850' FWL (NE SW)

At proposed prod. zone

Same

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

Location is 18.4 miles from Hatch Trading Post, Utah

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drilg. unit line, if any)

1690'

## 16. NO. OF ACRES IN LEASE

2240

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

160

## 18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

----

## 19. PROPOSED DEPTH

5600'

## 20. ROTARY OR CABLE TOOLS

Rotary

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5120' GR

## 22. APPROX. DATE WORK WILL START\*

October 25, 1982

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8" New	24# K-55 ST&C	2500'	Cement to surface.
7 7/8"	5 1/2" New	15.5# K-55 ST&C	5600'	Cement w/200 sx + additives.

1. Drill 12 1/4" hole and set 8 5/8" surface casing to 2500' with good returns.
2. Log B.O.P. checks in daily drill reports and drill 7 7/8" hole to 5600'.
3. Run tests if warranted and run 5 1/2" casing if productive.
4. Run logs, as needed, and perforate and stimulate as needed.

## EXHIBITS ATTACHED:

"A" Location and Elevation Plat  
"B" The Ten-Point Compliance Program  
"C" The Blowout Preventer Diagram  
"D" The Multi-Point Requirements for A.P.D.  
"E" & "E<sub>1</sub>" Access Road Maps to Location  
"F" Radius Map of Field  
"G" & "G<sub>1</sub>" Drill Pad Layout, Production Facilities & Cut-Fill Cross-Section  
"H" Drill Rig Layout

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED John W. Lowry TITLE District Drilling and Production Superintendent DATE 10/11/82  
(This space for Federal or State office use)

## PERMIT NO.

## APPROVAL DATE

## APPROVED BY

E. W. Guynn  
TITLE District Oil & Gas Supervisor

## DATE

OCT 21 1982

## CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED  
TO OPERATOR'S COPY

\*See Instructions On Reverse Side

FLARING OR VENTING OF  
GAS IS SUBJECT TO NTL 4-A  
DATED 1/1/80

NOTICE OF APPROVAL

S. J. O. G.

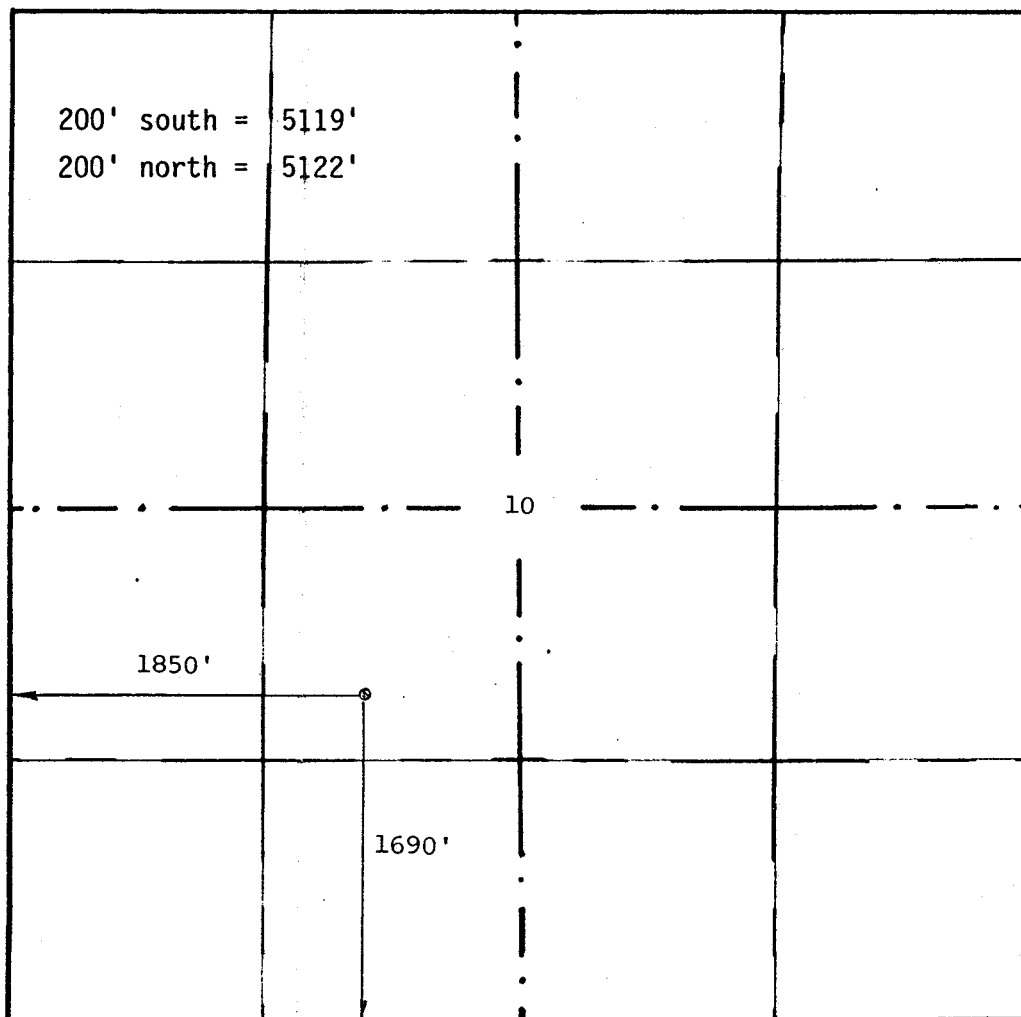
Raymond T. Duncan  
Well No. 1-10  
Section 10,. T.37S., R.24E.  
San Juan County, Utah  
Bradford Canyon Unit  
Lease U-12414

Supplemental Stipulations

- 1) The top 12 inches of soil material will be removed from the location and stockpiled.
- 2) Adequate and sufficient electric/radioactive logs will be run to locate and identify the saline minerals in the Paradox formation. Casing and cementing programs will be adjusted to eliminate any potential influence of the well bore or productive hydrocarbon zones on the saline minerals resource. Surface casing program may require adjustment for protection of fresh water aquifers.



POWERS ELEVATION



Operator Raymond T. Duncan		Well name 1-10 Bradford Canyon Unit	
Section 10	Township 37 South	Range 24 East	Meridian Salt Lake
Footages 1690' FSL & 1850' FWL			County/State San Juan, Utah
Elevation 5120'	Requested by John Lowry		
<p>The above plat is true and correct to the best of my knowledge and belief.</p> <p>25 Sept. 1982</p> <p><i>Gerald G. Huddleston</i> Gerald G. Huddleston, L.S. Utah Exception</p>			

ADDITIONAL STIPULATIONS FOR PRODUCTION FACILITIES

Your Application for Permit to Drill also included submittal for production facilities. These production facilities are approved for the lessee and his designated operator under Section 1 of the Oil and Gas Lease with the following conditions:

- (1) The oil and gas measurement facilities must be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy are to be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. Please provide this office with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports are to be submitted to the Salt Lake City District Oil and Gas Supervisor. Royalty payments will be made on all production volume as determined by the meter measurements or the tank measurements. All measurement facilities must conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.
- (2) Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flowline will be buried from the wellhead to the meter and 500 feet downstream of the meter run or any production facilities. Meter runs must be housed and/or fenced.
- (3) All disturbed areas not required for operations will be rehabilitated.
- (4) All produced liquids must be contained including the dehydrator vent/condensate line effluent. All production pits must be fenced.
- (5) The well activity, the well status and the date the well is placed on production must be reported on Lessee's Monthly Report of Operations, Form 9-329.
- (6) All off-lease storage, off-lease measurement, or commingling on lease or off-lease must have written approval.
- (7) All product lines entering and leaving hydrocarbon storage tanks must be locked/sealed.
- (8) You are reminded of the requirements for handling, storing, or disposing of water produced from oil and gas wells under NTL-2B.
- (9) All materials, trash, junk, debris, etc. not required for production must be removed from the well site and production facility site at the completion of these operations.
- (10) A copy of the Gas Sales Contract will be provided to this office and the Royalty Accounting Department as directed.
- (11) Construction and maintenance for surface use approved under this plan should be in accordance with the surface use standards as set forth in the BLM/GS Oil and Gas Brochure entitled, "Surface Operating Standards for Oil and Gas Exploration and Development." This includes, but is not limited to, such items as road construction and maintenance, handling of top soil and rehabilitation.
- (12) "Sundry Notice and Reports on Wells" (form 9-331) will be filed for all changes of plans and other operations in accordance with 30 CFR 221.58. Emergency approval may be obtained verbally, but such approval does not waive the written report requirement. Any additional construction, reconstruction, or alternations of facilities, including roads, gathering lines, batteries, measurement facilities, etc., will require the filing of a suitable plan and prior approval by the survey.



POWERS ELEVATION

OIL WELL ELEVATIONS — LOCATIONS  
ENVIRONMENTAL — ARCHAEOLOGICAL SERVICES  
600 SOUTH CHERRY STREET, SUITE 1201  
DENVER, COLORADO 80222  
PHONE NO. 303/321-2217

October 12, 1982

State of Utah  
Division of Oil, Gas, and Mining  
4241 State Office Building  
Salt Lake City, Utah 84114

RE: Filing Application for Permit to Drill  
Raymond T. Duncan  
#1-10 Bradford Canyon Unit  
NE SW Sec. 10 T37S R24E  
1690' FSL & 1850' FWL  
San Juan County, Utah

**RECEIVED**  
OCT 14 1982

**DIVISION OF  
OIL, GAS & MINING**

Gentlemen:

Enclosed are three copies each of the Federal A.P.D. Form 9-331C, the Location and Elevation Plat, the Ten-Point Compliance Program, and the Blowout Preventer Diagram for the above-referenced well location.

Please return the approved copies to:

Mr. John Lowry  
Raymond T. Duncan  
1777 South Harrison Street  
Penthouse One  
Denver, Colorado 80210

Very truly yours,

POWERS ELEVATION

*Connie L. Frailey*

Connie L. Frailey  
Vice President, Environmental Services

CLF:kle  
Enclosures

cc: Mr. John Lowry

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-12414
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A
2. NAME OF OPERATOR Raymond T. Duncan		7. UNIT AGREEMENT NAME N/A-BRADFORD CANYON
3. ADDRESS OF OPERATOR 1777 South Harrison Street, Penthouse One, Denver, CO 80210		8. FARM OR LEASE NAME Bradford Canyon Unit
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 1690' FSL & 1850' FWL (NE SW) At proposed prod. zone Same		9. WELL NO. 1-10
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* Location is 18.4 miles from Hatch Trading Post, Utah		10. FIELD AND POOL, OR WILDCAT Wildcat
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1690'		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 10 T37S R24E
16. NO. OF ACRES IN LEASE 2240		12. COUNTY OR PARISH 13. STATE San Juan Utah
17. NO. OF ACRES ASSIGNED TO THIS WELL 160		
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. ----		20. ROTARY OR CABLE TOOLS Rotary
19. PROPOSED DEPTH 5600'		22. APPROX. DATE WORK WILL START* October 25, 1982
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5120' GR		

## 23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8" New	24# K-55 ST&C	2500'	Cement to surface.
7 7/8"	5 1/2" New	15.5# K-55 ST&C	5600'	Cement w/200 sx + additives.

1. Drill 12 1/4" hole and set 8 5/8" surface casing to 2500' with good returns.
2. Log B.O.P. checks in daily drill reports and drill 7 7/8" hole to 5600'.
3. Run tests if warranted and run 5 1/2" casing if productive.
4. Run logs, as needed, and perforate and stimulate as needed.

## EXHIBITS ATTACHED:

- |                         |                                                                  |
|-------------------------|------------------------------------------------------------------|
| "A"                     | Location and Elevation Plat                                      |
| "B"                     | The Ten-Point Compliance Program                                 |
| "C"                     | The Blowout Preventer Diagram                                    |
| "D"                     | The Multi-Point Requirements for A.P.D.                          |
| "E" & "E <sub>1</sub> " | Access Road Maps to Location                                     |
| "F"                     | Radius Map of Field                                              |
| "G" & "G <sub>1</sub> " | Drill Pad Layout, Production Facilities & Cut-Fill Cross-Section |
| "H"                     | Drill Rig Layout                                                 |

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED John W. Lowry TITLE District Drilling and Production Superintendent DATE 10/11/82  
(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING  
APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

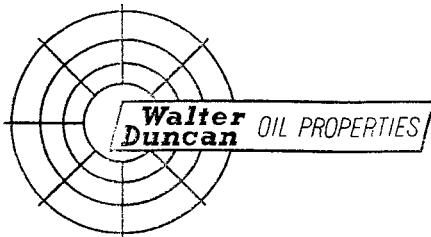
DATE: 10-14-82  
BY: Harmon E. Stout

\*See Instructions On Reverse Side

RECEIVED

OCT 14 1982

DIVISION OF  
OIL GAS & MINING



1777 SOUTH HARRISON STREET • PENTHOUSE ONE  
TELEPHONE (303) 759-3303 • DENVER, COLORADO 80210

November 11, 1982

Minerals Management Services  
Oil & Gas Division  
2000 Administrative Building  
1745 W. 1700 South  
Salt Lake City, UT 84104

ATTN: E.W. Guynn  
Dist. Oil & Gas Supervisor

RE: 1-10 Bradford Canyon Unit  
Sec. 10-37S-24E  
San Juan Co., Ut

Dear Mr. Guynn:

Attached are copies of Sundry Notices requesting permission to plug the above captioned well, along with a subsequent Sundry advising plugging operations.

Please contact our office if further information is needed.

Very truly yours,  
RAYMOND T. DUNCAN

A handwritten signature in cursive script that reads "John W. Lowry".

John W. Lowry  
District Drilling and Prod. Supt.

cl  
Encl.

cc. Working Interest Owners  
State of Utah O & G Div.

DIVISION OF  
OIL, GAS & MINING

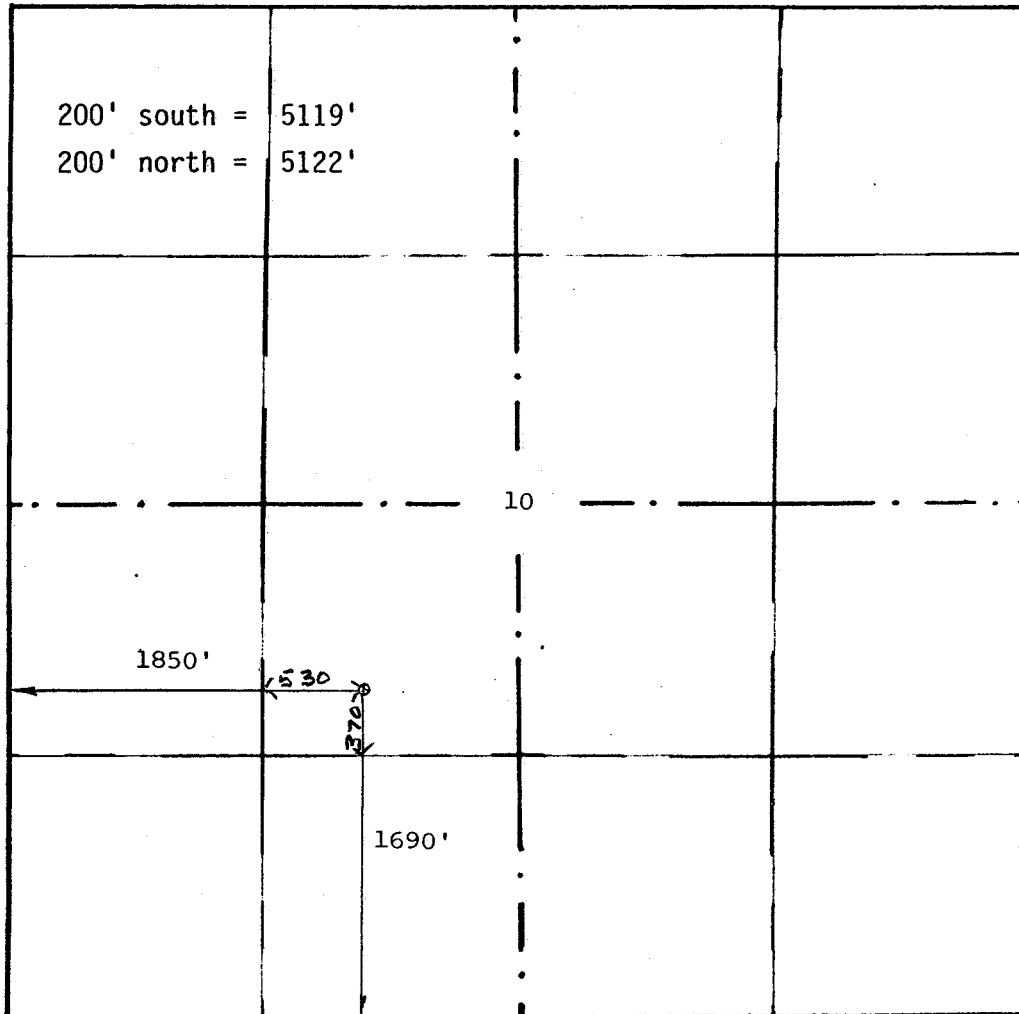
DEC 08 1982



EXHIBIT "A"  
Location and Elevation Plat



POWERS ELEVATION



Operator Raymond T. Duncan		Well name 1-10 Bradford Canyon Unit	
Section 10	Township 37 South	Range 24 East	Meridian Salt Lake
Footages 1690' FSL & 1850' FWL			County/State San Juan, Utah
Elevation 5120'	Requested by John Lowry		
<p>The above plat is true and correct to the best of my knowledge and belief.</p> <p>25 Sept. 1982</p> <p><i>Gerald G. Huddleston</i> Gerald G. Huddleston, L.S. Utah Exception</p>			



EXHIBIT "B"  
TEN-POINT COMPLIANCE PROGRAM  
OF NTL-6 APPROVAL OF OPERATIONS

Attached to Form 9-331C  
Raymond T. Duncan  
#1-10 Bradford Canyon Unit  
NE SW Sec. 10 T37S R24E  
1690' FSL & 1850' FWL  
San Juan County, Utah

1. The Geologic Surface Formation

The surface formation is the Dakota.

2. Estimated Tops of Important Geologic Markers

Hermosa	4110'
Ismay	5170'
Lower Ismay	5355'
Gothic Shale	5405'
Desert Creek	5425'
Lower Desert Creek	5490'
Chimney Rock Shale	5530
Total Depth	5600'

3. Estimated Depths of Anticipated Water, Oil, Gas or Minerals

Desert Creek	5425'	Oil/gas
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4. The Proposed Casing Program

<u>HOLE SIZE</u>	<u>INTERVAL</u>	<u>SECTION LENGTH</u>	<u>SIZE (OD)</u>	<u>WEIGHT, GRADE &amp; JOINT</u>	<u>NEW OR USED</u>
12 1/4"	0-2500'	2500'	8 5/8"	24# K-55 ST&C	New
7 7/8"	0-5600'	5600'	5 1/2"	15.5# K-55 ST&C	New

Cement Program -

Surface Casing: Cement to surface.

Production Casing: Cement with 200 sacks plus additives.

5. The Operator's Minimum Specifications for Pressure Control

EXHIBIT "C" is a schematic diagram of the blowout preventer equipment. The BOP's will be hydraulically tested to half of working pressure after nipping up and after any use under pressure. Pipe rams will be operationally checked each 24-hour period, as will blind rams and annular preventer each time pipe is pulled out of the hole. Such checks of BOP will be noted on daily drilling reports.

Accessories to BOP will include an upper and lower kelly cock, floor safety valve, drill string BOP and choke manifold with pressure rating equivalent to the BOP stack.

6. The Type and Characteristics of the Proposed Circulating Muds

Mud system will be gel-chemical with adequate stocks of sorptive agents on site to handle possible spills of fuel and oil on the surface. Heavier muds will be on location to be added if pressure requires.

<u>DEPTH</u>	<u>TYPE</u>	<u>WEIGHT #/gal.</u>	<u>VISCOSITY-sec./qt.</u>	<u>FLUID LOSS cc</u>
0-4200'	Natural	9.0-9.2	35	10-20
4200'-TD	Chemical Gel	9.5-12.0	45	5-10

7. The Auxiliary Equipment to be Used

- (a) An upper and lower kelly cock will be kept in the string.
- (b) A float will be used at the bit.
- (c) A mud logging unit and gas detecting device will be monitoring the system. Mud system will be monitored visually.
- (d) A stabbing valve will be on the floor to be stabbed into the drill pipe when kelly is not in the string.

8. The Testing, Logging and Coring Programs to be Followed

- (a) A drill stem test will be run in the Ismay and Desert Creek formations.
- (b) The logging program will consist of the following:

Dual Induction	2500'-TD
BHC Acoustic	2500'-TD
BHC Density	2500'-TD
Dipmeter	5100'-TD
- (c) Coring is anticipated in the Ismay and Desert Creek formations.
- (d) Stimulation procedures will be determined after evaluation of logs. If treatment is indicated, appropriate Sundry Notice will be submitted for approval.

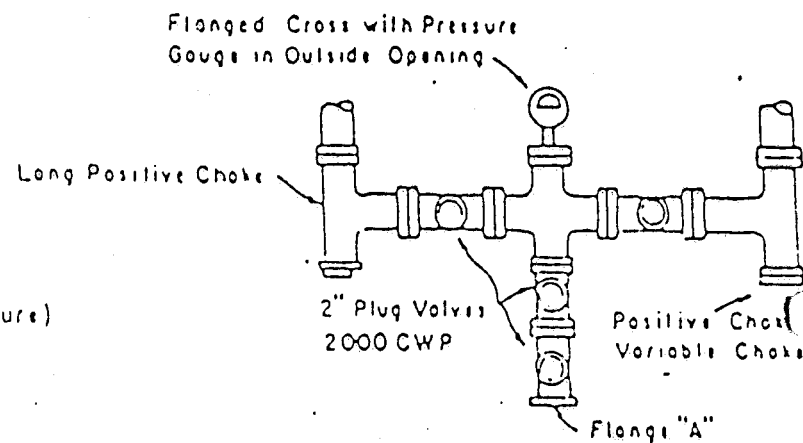
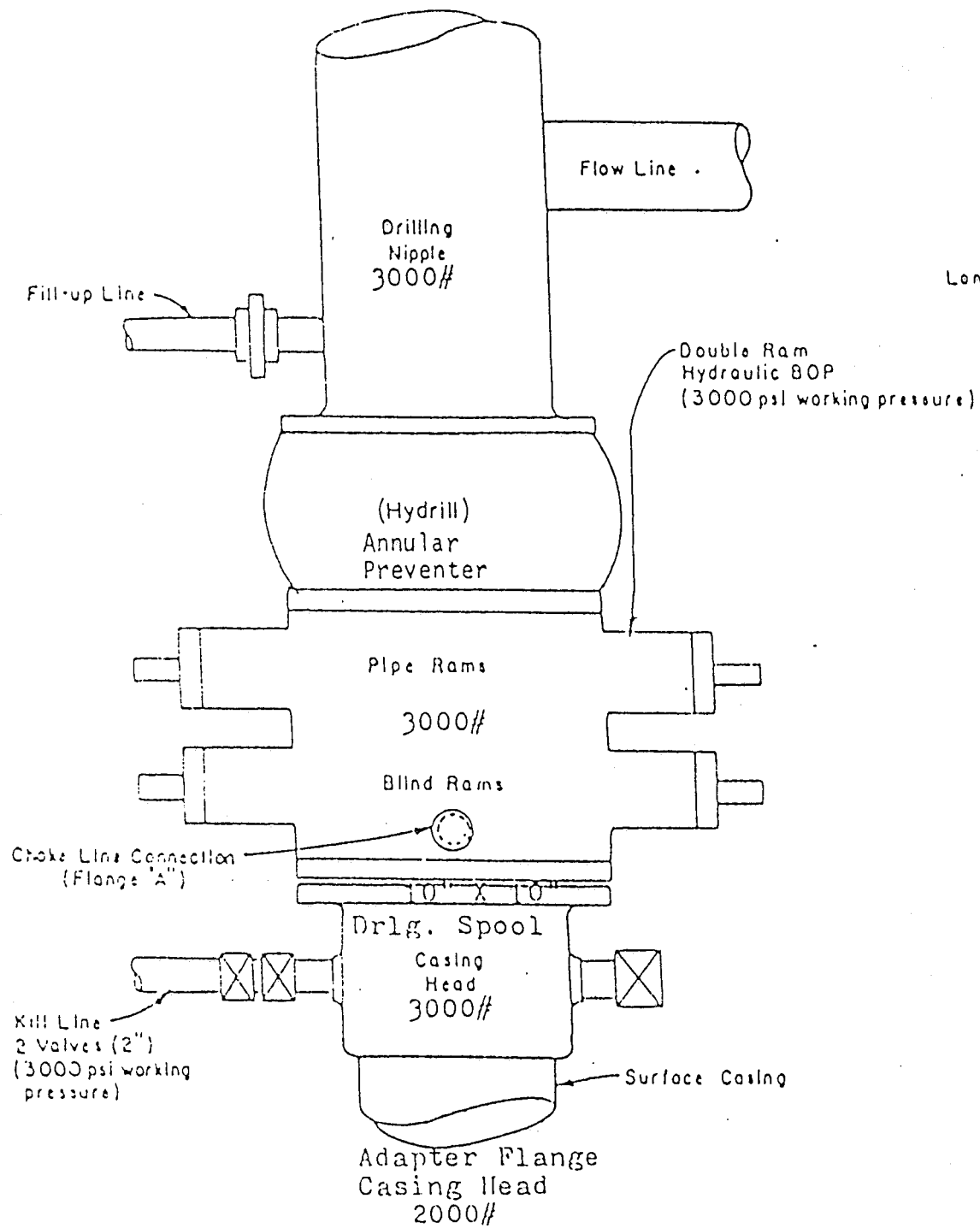
9. Any Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures have been noted or reported in wells drilled in the area nor at the depths anticipated in this well.

No hydrogen sulfide or other hazardous fluids or gases have been found, reported or known to exist at these depths in the area.

10. Anticipated Starting Date and Duration of the Operations

The anticipated starting date is set for October 25, 1982, or as soon as possible after examination and approval of drilling requirements. Operations will cover 20 days for drilling and 15 days for completion.



PLAN VIEW - CHOKES MANIFOLD

BLOWOUT PREVENTER  
DIAGRAM

OPERATOR RAYMOND T DUNCAN DATE 10-14-82

WELL NAME BRADFORD CANYON UNIT 1-10

SEC NESW 10 T 37 S R 24 E COUNTY SAN JUAN

43-037-30826  
API NUMBER

FED  
TYPE OF LEASE

POSTING CHECK OFF:

☐

INDEX

☒

HL

☐☐

NID

☒

PI

☐☒

MAP

☒☐

PROCESSING COMMENTS:

RJR ✓

APPROVAL LETTER:

SPACING:

☒

A-3 BRADFORD CANYON  
UNIT

☐

c-3-a

CAUSE NO. & DATE

☐

c-3-b

☐

c-3-c

SPECIAL LANGUAGE:

☒ RECONCILE WELL NAME AND LOCATION ON APD AGAINST SAME DATA ON PLAT MAP.

☒ AUTHENTICATE LEASE AND OPERATOR INFORMATION *FED*

☒ VERIFY ADEQUATE AND PROPER BONDING *FED*

☒ AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.

☒ APPLY SPACING CONSIDERATION

☐ ORDER *NO*

☐ UNIT *BRADFORD CANYON - 7-21-82*

☐ c-3-b

☐ c-3-c

*all formations ✓  
sec 10 in center  
of unit*

☒ OUTSTANDING OR OVERDUE REPORTS FOR OTHER WELLS OF THE OPERATOR.

☒ IF POTASH DESIGNATED AREA, SPECIAL LANGUAGE ON APPROVAL LETTER *NO*

October 14, 1982

Raymond T. Duncan  
1777 South Harrison Street  
Penthouse One  
Denver, Colorado 80210

RE: Well No. Bradford Canyon Unit 1-10  
NESW Sec. 10, T.37S, R.24E  
San Juan County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to oil well is hereby granted in accordance with Section 40-6-11, Utah Code Annotated 1953; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

RONALD J. FIRTH - Engineer  
Office: 533-5771  
Home: 571-6068

OR

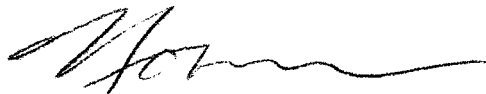
CLEON B. FEIGHT - Director  
Office: 533-5771  
Home: 466-4455

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-037-30826.

Sincerely,



Norman C. Stout  
Administrative Assistant

NCS/as  
cc: Minerals Management Service  
Enclosure

## SUNDRY NOTICES AND REPORTS ON WELLS

1. oil well ☐ gas well ☐ other DRY HOLE

2. NAME OF OPERATOR  
Raymond T. Duncan

3. ADDRESS OF OPERATOR  
1777 So. Harrison, P-1, Denver, CO 80210

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

AT SURFACE: 1690' FSL: 1850' FWL (NE SW)  
AT TOP PROD. INTERVAL: SAME  
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE,  
REPORT, OR OTHER DATA

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>
(other)	<input type="checkbox"/>

Plug Well ☐

U-12414

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
N/A

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Bradford Canyon Unit

9. WELL NO.

1-10

10. FIELD OR WILDCAT NAME

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 10-37S-24E

12. COUNTY OR PARISH San Juan	13. STATE UT
----------------------------------	-----------------

14. API NO.

43-037-30826

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
5133' KB; 5132' DF; 5120 GL

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Well was plugged and abandoned per Sundry Notice requesting same.

(Copy attached)

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

18. I hereby certify that the foregoing is true and correct.

18. I hereby certify that the foregoing is true and correct.

SIGNED John W. Lowry Dist. Drlg. &  
John W. Lowry TITLE Prod. Supt. DATE 11/6/82

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Form Approved.  
Budget Bureau No. 42-R1424

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ well gas ☐ well other ☒ Dry Hole  
2. NAME OF OPERATOR  
Raymond T. Duncan  
3. ADDRESS OF OPERATOR  
1777 So. Harrison, P-1, Denver, CO 80210  
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 1690' FSL; 1850' FWL (NE SW)  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH: SAME

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐  
FRACTURE TREAT ☐  
SHOOT OR ACIDIZE ☐  
REPAIR WELL ☐  
PULL OR ALTER CASING ☐  
MULTIPLE COMPLETE ☐  
CHANGE ZONES ☐  
ABANDON\* ☐  
(other) Plug ☒

SUBSEQUENT REPORT OF:

☐  
☐  
☐  
☐  
☐  
☐  
☐  
☐  
☐  
☐

5. LEASE  
U-12414  
6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
N/A  
7. UNIT AGREEMENT NAME  
8. FARM OR LEASE NAME  
Bradford Canyon Unit  
9. WELL NO.  
1-10  
10. FIELD OR WILDCAT NAME  
Wildcat  
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 10-37S-24E  
12. COUNTY OR PARISH  
San Juan  
13. STATE  
UT  
14. API NO.  
43-037-30826  
15. ELEVATIONS (SHOW DF, KDB, AND WD)  
5133' KB; 5132' DF; 5120 GL

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Duncan requests approval to plug well in the following manner:

5500' - 5300' 54 sx Class B w/add. (Top Gothic Shale - 5395')  
4100' - 3900' 54 sx Class B w/add. (Top Hermosa 4055') See Note\*  
2550' - 2400' 50 sx Class B w/add.  
Surface - 30' 20 sx Class B w/add.

Cut off surface casing 3' below GL & weld steel plate cover.

\*Note: WOC 4 hrs, tagged plug @ 3900'.

Verbal approval given to John Lowry on 11/24/82 by E.W. Guynn, MMS, 8:33 PM.

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

18. I hereby certify that the foregoing is true and correct.

SIGNED John W. Lowry TITLE Dist. Drlg. & Prod. Supt. DATE 11/6/82

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

DIVISION OF OIL, GAS AND MINING

SPODDING INFORMATION

NAME OF COMPANY: RAYMOND T. DUNCAN

WELL NAME: Bradford Canyon Unit 1-10

SECTION NESE 10 TOWNSHIP 37S RANGE 24 E COUNTY San Juan

DRILLING CONTRACTOR Arapahoe

RIG # 11

SPODDED: DATE 11-9-82

TIME 11:00 PM

How Rotary

DRILLING WILL COMMENCE 11-9-82

REPORTED BY Chay Loshbaugh

TELEPHONE # 303-759-3303 Ext 32

DATE 11-10-82 SIGNED NS

RAYMOND T. DUNCAN  
NO. 1-10 BRADFORD CANYON UNIT  
NE SW SECTION 10, T37S, R24E  
SAN JUAN COUNTY, UTAH

**RECEIVED**  
DEC 13 1982

**DIVISION OF  
OIL, GAS & MINING**

WELLSITE GEOLOGIST: Jim Holst  
Intermountain Wellsite Geologists  
P.O. Box 4007  
Casper, Wyoming 82604  
(307) 266-2009

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WELL DATA

OPERATOR:

Raymond T. Duncan  
1777 South Harrison  
Penthouse No. 1  
Denver, Colorado 80210  
(303) 759-3303

OTHER INTERESTED PARTIES:

Tricentrol  
5675 South Tamarac Parkway  
Gateway Place No. 200  
Englewood, Colorado 80111  
(303) 694-0988

MCOR Oil and Gas Corporation  
10880 Wilshire Blvd.  
Los Angeles, California 90024  
(213) 879-5252

Sante Fe Energy  
2600 Security Life Building  
Denver, Colorado 80202  
(303) 825-5101

Diamond Shamrock  
410 17th Street, No. 600  
Denver, Colorado 80202  
(303) 575-0255

Transco Exploration  
720 South Colorado Blvd. Suite No. 1260  
Denver, Colorado 80222  
(303) 692-8790

Marathon Oil Company  
P.O. Box 2659  
Casper, Wyoming 82602

Chorney Oil Company  
410 Lincoln Tower Building  
Denver, Colorado 80295  
(303) 861-5858

WELL NAME:

No. 1-10 Bradford Canyon Unit

LOCATION:

NE SW Section 10, T37S, R24E  
1690' FSL, 1850' FWL  
San Juan County, Utah

FIELD: Wildcat

GROUND LEVEL ELEVATION: 5120 Feet

KELLY BUSHING ELEVATION: 5133 Feet

GEOLOGIST: Jim Holst  
Intermountain Wellsite Geologists  
P.O. Box 4007  
Casper, Wyoming 82604  
(307) 266-2009

MUDLOGGING: Tooke Engineering  
P.O. Box 3200  
Casper, Wyoming 82602  
(307) 265-1630  
Two Man Logging Service-Unit No. T-150  
Loggers: Dirk Bowman  
John Walker  
Lloyd Kitzmiller

SPUD DATE: November 9, 1982 (9:00 p.m.)

CEASED DRILLING: November 24, 1982 (11:30 a.m.)

CONTRACTOR: Arapahoe Drilling Company  
Rig No. 11  
P.O. Box 2078  
Farmington, New Mexico 87401  
(505) 325-5018

TOOL PUSHERS: Albert Frank  
Ed Brown

DRILLERS: P. Gallegos  
D.J. Lenocker  
G. Davis  
J. Lee

COMPANY MAN: J.A. "Arkie" Browning  
P.O. Box 1058  
Cortez, Colorado 81321  
(303) 565-8806; Mobile - 565-5000

RIG EQUIPMENT: Drawworks-National T-32  
Derrick-126 Ft.; 8 lines  
Pump No. 1-Ideal C-250  
Pump No. 2-Ideal C-150  
Drill Pipe-4½ Inch; 4IF X-Hole  
Drill Collars-6 1/16; 4½IF X-Hole

DRILLING FLUIDS:

American Mud Company  
P.O. Box 3433  
Farmington, New Mexico 87401  
(505) 327-4981  
Engineer-Eddie McDaniel  
P.O. Box 874  
Delores, Colorado 81323  
(303) 882-7965  
Mud Type-Fresh Gel Mud (low water loss)

SURFACE CASING:

Driller-120 ft.; 13 3/8 Inch  
2465 ft.; 8 5/8 Inch  
E Logger-2465 ft.

TOTAL DEPTH:

Driller-5510 Ft.  
E Logger-5517 Ft.

BOTTOM HOLE TEMPERATURE:

122°F

SAMPLES:

30 Ft.-Surface to 2500 Ft.  
10 Ft.-2500 Ft. - Total Depth

Wet cuts sent to Amstrat, Denver, Colorado;  
10 ft. samples (dry cuts) from Ismay Top to  
total depth sent to Duncan in Denver; show  
samples sent to Duncan in Denver.

CORES:

No cores cut

DRILL STEM TEST NO. 1:

No Drill Stem Test in Ismay

DRILL STEM TEST NO. 2:

No Drill Stem Test in Desert Creek

ELECTRICAL LOGS:

Schlumberger  
Farmington, New Mexico  
(505) 325-5006  
Engineer-K. Schwarzenegger

ELECTRICAL LOGS RUN:

DLL with GR and CAL from base of surface  
casing to total depth; BHC SONIC with GR  
and CAL from base of surface casing to total  
depth; FDC-CNL with GR and CAL from base of  
surface casing to total depth; CYBERLOOK from  
4000 ft. to total depth.

## CHRONOLOGY

November 9, 1982  
Drill rat hole and mouse hole. Spudded at 9:00 p.m., drilling 17¼ inch surface hole. Drilled from 0 ft. to 118 ft.-circulate.

November 10, 1982  
Trip out of hole to run conductor pipe. Ran 3 joints 13 3/8 inch casing, set at 118 ft. Cement with 150 sacks Class B 2% CaCl. Plug down at 4:30 a.m., no returns, cement back side with 100 sacks 3% CaCl. Completed at 2:15 p.m. Wait on cement, nipple up.

November 11, 1982  
Trip into hole. Tag cement at 101 ft. Drilling 12¼ inch hole from 118 ft. to 1021 ft. Drilling ahead.

November 12, 1982  
Drilled from 1021 ft. to 1320 ft. Trip for New Bit No. 3A. Drop survey. Trip into the hole. Drilled from 1320 ft. to 1671 ft. Drilling ahead.

November 13, 1982  
Drilled from 1671 ft. to 2370 ft. Drilling ahead.

November 14, 1982  
Drilled from 2370 ft. to 2465 ft. Circulate to run surface casing. Trip out of hole. Lay down 8 and 9 inch drill collars. Run 61 joints of 8 5/8 inch casing. Set at 2465 ft. Cemented with 1350 sacks 65/35 Class "B" POZ with 6% gel and ¼ lbs. gel flake (flocele) per sack followed with 150 sacks Class "B" 2% CaCl. Plug down at 2:15 p.m. Circulated with good returns. Wait on cement. Nipple up. Pressure test B.O.P. to 3000 lbs.

November 15, 1982  
Wait on cement. Nipple up. Drill out from under surface casing at 3:15 a.m. Drilled from 2465 ft. to 3190 ft. Drilling ahead.

November 16, 1982  
Drilled from 3190 ft. to 3664 ft. Drilling ahead.

November 17, 1982  
Drilled from 3664 ft. to 3765 ft. Trip out for New Bit No. 5 (HTC) J-33H. Drop survey. Trip into hole. Drilled from 3765 ft. to 4068 ft. Drilling ahead.

November 18, 1982  
Drilled from 4068 ft. to 4614 ft. Drilling ahead.



November 19, 1982	Drilled from 4614 ft. to 4975 ft. Drilling ahead.
November 20, 1982	Drilled from 4975 ft. to 5205 ft. Drilling ahead.
November 21, 1982	Drilled from 5205 ft. to 5413 ft. Drilling ahead.
November 22, 1982	Drilled from 5413 ft. to 5440 ft. Drop survey. Trip out of hole to run core. S.L.M. (-2.80 ft.) - no depth correction made. Pick up core barrel. Trip into hole with core barrel; could not pass core bit past 2425 ft. Trip out of hole; wait on reamer.
November 23, 1982	Trip into hole with 7 7/8 inch reamer. Ream 8 5/8 inch casing. Trip out of hole. Trip into hole with core barrel, still tight. Trip out of hole; wait on larger reamer (8 inch). Ream 8 5/8 inch casing. Decided not to core. Trip out of hole for New Bit No. 6 (STC) F-3. Trip into hole.
November 24, 1982	Finish tripping into hole. Drilled from 5440 ft. to 5510 ft. Circulate to run electrical logs. Trip out of hole to run logs. Run E-logs.
November 25, 1982	Finish running electrical logs. Decided to plug and abandon location. Set plugs at 4000 ft. to 4150 ft; 5300 ft. to 5510 ft.; and 100 sack plug at surface. Geolo- gist released.

## DAILY DRILLING SUMMARY

[illegible]

# BIT RECORD

<u>BIT NO.</u>	<u>SIZE</u>	<u>MAKE</u>	<u>TYPE</u>	<u>DEPTH OUT</u>	<u>FEET CUT</u>	<u>HOURS</u>	<u>AVE FT/HR</u>
1A	17 $\frac{1}{4}$	HTC	OSC19	118'	118'	2 $\frac{1}{4}$	52.4
2A	12 $\frac{1}{4}$	STC	F-2	1320'	1202'	27 $\frac{1}{2}$	43.7
3A	12 $\frac{1}{4}$	HTC	J-22	2465'	1145'	40 $\frac{3}{4}$	28.1
4	7 $\frac{7}{8}$	HTC	J-22	3765'	1300'	53	24.5
5	7 $\frac{7}{8}$	HTC	J-33H	5440'	1675'	110	15.2
6	7 $\frac{7}{8}$	STC	F-3	5510'	70'	10	7.0

# DEVIATION RECORD

<u>DATE</u>	<u>DEPTH</u>	<u>DEGREE DEV.</u>
11/10	116'	0 <sup>0</sup>
11/11	658'	$\frac{1}{2}$ <sup>0</sup>
11/12	1149'	1 <sup>0</sup>
11/13	1320'	1 $\frac{1}{4}$ <sup>0</sup>
11/14	1794'	1 $\frac{1}{4}$ <sup>0</sup>
11/15	3010'	3/4 <sup>0</sup>
11/16	3597'	1 <sup>0</sup>
11/17	3765'	1 $\frac{1}{2}$ <sup>0</sup>
11/18	4273'	1 $\frac{3}{4}$ <sup>0</sup>
11/19	4674'	3/4 <sup>0</sup>
11/21	5435'	3/4 <sup>0</sup>

# FORMATION TOPS

(K.B.-5133')

<u>FORMATION</u>	<u>SAMPLE TOP</u>	<u>E-LOG TOP</u>	<u>SUBSEA</u>
PENNSYLVANIAN-			
Hermosa	4085'	4055'	+1078
Upper Ismay	5126'	5167'	+34
Lower Ismay	5309'	5345'	-212
Gothic Shale	5361'	5395'	-262
Desert Creek	5382'	5420'	-287
Lower Desert Creek	5446'	5473'	-340
Chimney Rock	5477'	5490'	-357
Total Depth	5510'	5517'	-384

# E-LOG COMPARISONS

Raymond T. Duncan No. 1-10 Bradford Canyon Unit NE SW Sec 10 T37S R24E, San Juan Co., Utah GL Elev: 5120' KB Elev: 5133'	Raymond T. Duncan No. 1-23 Bradford Canyon Federal NE SW Sec 23 T37S R24E, San Juan Co., Utah GL Elev: 5011' KB Elev: 5026'	Raymond T. Duncan No. 1-3 Nancy Federal NE NW Section 3 T38S R25E, San Juan County, Utah GL Elev: 5388' KB Elev: 5403'
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<u>FORMATION</u>	<u>SUBSEA DEPTH</u>	<u>SUBSEA DEPTH</u>	<u>SUBSEA DEPTH</u>
PENNSYLVANIAN-			
Hermosa		+951	
Upper Ismay	+34	-87	-56
Lower Ismay	-212	-269	-245
Gothic Shale	-262	-321	-299
Desert Creek	-287	-343	-317
Lower Desert Creek	-340	-405	-375
Chimney Rock	-357	-446	-417
Total Depth	-384	-524	-435

# LOG CALCULATIONS

<u>FORMATION</u>	<u>DEPTH</u>	<u><math>\phi_N</math></u>	<u><math>\phi_D</math></u>	<u><math>\phi_S</math></u>	<u>Av. <math>\phi</math></u>	<u>F</u>	<u>Rt</u>	<u>Rwa</u>	<u>Rw</u>	<u>Ro</u>	<u>Sw (%)</u>
Upper Ismay	5282	.12	0	.07	.063	252	40	.159	.035	8.82	47
	5284	.10	0	.075	.058	297	30	.10	.035	10.4	59
	5286	.06	0	.04	.033	918	45	.049	.035	32.1	85
Lower Ismay	5353	.01	.01	.035	.018	3086	400	.13	.035	108.0	52
	5385	.13	.025	.095	.083	145	15	.10	.035	5.1	58
	5389	.12	0	.08	.067	223	17	.08	.035	7.8	68
Desert Creek	5430	.19	.06	.135	.128	61	10	.16	.035	2.14	46
	5446	.19	.02	.115	.108	85.7	15	.18	.035	3.0	45
	5456	.135	.02	.12	.092	118	18	.15	.035	4.14	48
	5461	.12	0	.09	.07	204	25	.12	.035	7.14	53
	5465	.15	.02	.10	.09	123	17	.14	.035	4.32	50
Lower Desert Creek	5478	.06	0	.05	.037	730	21	.03	.035	25.6	100
	5486	.085	0	.07	.052	370	30	.08	.035	12.9	66

COMMENTS: The calculated values always assumed a constant bulk fluid density of 1.0 gm/cc. A resistivity value of 0.035 was used for all calculations. A limestone matrix was used on CNP and a grain density of 2.71 was used on FDC. The formation resistivity factor was calculated as  $F = 1/\phi^2$ ; Rwa was calculated as  $Rwa = Rt/F$ ; Ro was calculated as  $Ro = FRw$ .

DRILL STEM TEST DATA

DRILL STEM TEST NO. 1: No test was run in the Ismay

DRILL STEM TEST NO. 2: No test was run in the Desert Creek

# SAMPLE DESCRIPTIONS

- 4000-4070 Siltstone-red; brick red; orange; scattered gray; soft to scattered moderately firm; calcareous; very micaceous; slightly sandy in part; with Sandstone-scattered light gray; gray to light pink; light red; scattered white to clear; fine grained to medium grained; angular to sub-angular; poorly sorted; micaceous; calcareous; with Shale-brick red; medium gray; soft to moderately firm; slightly calcareous; silty in part; blocky; scattered Limestone-brown; brownish gray to grayish brown; cryptocrystalline; dense; no porosity.
- 4070-4110 Limestone-brown; medium gray; brownish gray; microcrystalline to cryptosucrosic; dense; silty to very silty; no porosity; with interbedded Sandstone-white; light gray; light pink; fine grained to medium grained; angular to subangular; calcareous; poorly sorted; micaceous; with Shale-gray to red; blocky to scattered platy; silty in part; calcareous; soft to moderately firm.
- 4110-4130 Shale-red to gray; blocky to platy; calcareous to slightly limy in part; silty in part; micaceous in part; with interbedded Limestone-brown to gray; grayish brown; cryptocrystalline; dense; no visible porosity; scattered Siltstone-red orange to gray; soft to moderately firm; calcareous; slightly sandy in part; micaceous in part; scattered Sandstone-white; light gray; light pink; fine grained to medium grained; poorly sorted; calcareous; angular to subangular.
- 4130-4160 Siltstone-red; brick red; orange; scattered gray; moderately soft; calcareous; shaly in part; with Shale-red; blocky; slightly silty in part; calcareous; moderately firm to scattered soft; scattered Limestone-grayish brown; dense; cryptocrystalline..
- 4160-4200 Limestone-medium gray; brown; grayish-brown; cryptocrystalline to scattered microcrystalline; dense; no visible porosity; no stain; scattered dark brown chert.
- 4200-4230 Siltstone-gray; reddish gray; soft to moderately firm; slightly sandy in part; scattered shaly in part; calcareous to slightly limy in part; micaceous in part; scattered Limestone-brown; grayish-brown; cryptocrystalline; dense.
- 4230-4270 Sandstone-light gray; white; very fine grained; dense; tight; scattered slightly calcareous; hard; subangular to subrounded; moderate to well sorted; scattered Limestone-brown; brownish gray; dense; cryptocrystalline; interbedded Siltstone-light gray; gray to red; moderately firm; scattered hard; micaceous in part; chalky.



- 4270-4320 Limestone-gray; brown; grayish-brown; cryptocrystalline to scattered cryptosucrosic; dense; hard; no visible porosity; no stain; no fluorescence; no cut; with interbedded Sandstone-light gray; medium gray; very fine grained; dense; tight; subangular; moderately sorted.
- 4320-4340 Shale-gray; dark brown; scattered dark gray; scattered red; platy in part; slightly silty in part; scattered slightly micaceous in part; soft to moderately firm; slightly calcareous.
- 4340-4370 Limestone-brown; grayish brown; cryptocrystalline; dense; no visible porosity; no stain; interbedded Shale-gray to greenish gray; red; blocky to platy; soft to moderately firm; calcareous; silty in part.
- 4370-4390 Limestone-cream; brown; gray; grayish brown; cryptocrystalline; chalky in part; dense; no visible porosity; with Shale-red; scattered greenish-gray; blocky to platy; soft to moderately firm; calcareous in part; scattered Sandstone-red; light gray; light red; very fine grained; silty in part; tight.
- 4390-4490 Limestone-tan; cream; brown; light gray; grayish brown; cryptocrystalline; scattered microcrystalline; dense; scattered fossils; no visible porosity; no stain; scattered mineral fluorescence; no cut; interbedded Shale-red to gray; slightly silty in part; blocky; scattered platy; calcareous in part; scattered micaceous in part; scattered Sandstone-white; light gray; clear; fine grained; scattered medium grained; subangular to angular; poor to scattered moderately sorted; calcareous in part; tight.
- 4490-4500 Limestone-light gray; tan; light brown; light grayish-brown; cream; microcrystalline to scattered cryptocrystalline; dense; no visible porosity; traces of scattered fossils.
- 4500-4520 Shale-gray; blocky to slightly platy; silty; calcareous; moderately firm.
- 4520-4540 Limestone-cream; tan; brown; grayish brown; dense; cryptocrystalline; no visible porosity; scattered Shale-gray; dark brownish gray; blocky to platy in part; calcareous; moderately firm.
- 4540-4580 Shale-gray; dark gray; dark brownish gray; blocky to platy; soft to moderately firm; calcareous; silty; interbedded Limestone-brown; grayish brown; cryptocrystalline; dense; no porosity; scattered Sandstone-white; cream; light gray; fine grained to medium grained; angular; poorly sorted; calcareous.
- 4580-4630 Limestone-light brown; tan; cream; grayish brown; cryptocrystalline; dense; moderately firm; no visible porosity; no stain.

- 4630-4680 Limestone-tan; light brown; creamy; cryptocrystalline; scattered slightly microcrystalline; dense; moderately firm; no visible porosity; no stain; scattered mineral fluorescence; no hydrocarbon fluorescence; no cut.
- 4680-4700 Shale-dark brown; scattered black; platy to blocky; moderately firm to soft; calcareous; silty in part; scattered Limestone-brown; cream; tan; cryptocrystalline; dense; no visible porosity; no stain; no cut.
- 4700-4710 Limestone-cream; white; light brown; tan; cryptocrystalline; dense; soft to moderately firm; slightly shaly in part; no visible porosity; no stain; no cut.
- 4710-4720 Sandstone-light gray; light greenish gray; very fine grained; micaceous; slightly calcareous; tight; moderately firm; moderately sorted; subangular to subrounded.
- 4720-4740 Shale-medium gray; medium brownish gray; blocky; slightly sandy in part; calcareous to slightly limy in part; moderately firm to hard.
- 4740-4750 Limestone-brown; light brown; tan; cream; dense; cryptocrystalline; moderately firm; no visible porosity; no stain; scattered mineral fluorescence; no cut.
- 4750-4770 Limestone-light gray; cream; white; light tan; grayish brown; cryptocrystalline to microcrystalline; moderately firm; no stain; no visible porosity.
- 4770-4790 Shale-dark brown; brown; dark gray to medium gray; blocky to scattered platy; moderately firm to soft; calcareous; silty in part; interbedded Limestone-brownish gray; cryptocrystalline; dense; moderately firm; no visible porosity; no stain; no cut.
- 4790-4810 Limestone-light gray; medium gray; tan; grayish brown; cryptocrystalline; dense; no visible porosity; argillaceous with black to dark brown lignite; scattered black coal.
- 4810-4830 Limestone-light gray; white; light tan; cryptocrystalline to fragmental; dense; abundant fossils (oolitic); no visible porosity; no stain; good mineral fluorescence; no hydrocarbon fluorescence; trace of slight light yellow cut.
- 4830-4850 Limestone-brown; grayish brown; cryptocrystalline; dense; slightly argillaceous in part; cherty; no visible porosity; no stain; no cut.
- 4850-4870 Shale-medium gray to dark gray; blocky to platy; slightly sandy to silty in part; calcareous to slightly limy in part; moderately firm; with Limestone-light brown; brownish gray; microcrystalline to cryptocrystalline; dense; no visible porosity; no stain; no cut; scattered slightly anhydritic.

- 4870-4940 Shale-black to dark gray; blocky; limy; silty in part; moderately firm to firm; with Limestone-gray; microcrystalline to cryptosucrosic; dense; no visible porosity; scattered dark black and dark brown lignite; scattered chert.
- 4940-4960 Limestone-light brown; light gray; cream; dense; crypto-crystalline; argillaceous in part; no visible porosity; no stain; no cut.
- 4960-4990 Shale-black; dark gray; dark brown; blocky to platy; limy; silty in part; moderately firm; carbonaceous in part; with Limestone-gray; microsucrosic; shaly in part; dense; no visible porosity; no stain; slightly anhydritic in part.
- 4990-5020 Limestone-cream; light gray; brown; tan; grayish brown; dense; cryptocrystalline; scattered brown chert; no visible porosity; no stain; no hydrocarbon fluorescence; no cut; scattered slightly argillaceous; scattered Shale-dark brown; dark gray to black; blocky to scattered slightly platy; moderately firm; slightly silty; limy in part; scattered slightly anhydritic in part.
- 5020-5050 Shale-medium gray to black; brownish gray; blocky; limy; slightly sandy to silty in part; moderately firm to hard; carbonaceous in part; with Limestone-grayish brown; light brown; microcrystalline to cryptocrystalline; dense; argillaceous to slightly shaly in part; no visible porosity; scattered dark brown chert; scattered slightly anhydritic Dolomite in part.
- 5050-5080 Shale-black; dark gray; blocky to slightly platy; moderately firm; slightly calcareous to scattered limy; scattered carbonaceous in part; micaceous in part; with Limestone-cream; light gray; tan; cryptocrystalline; dense; slightly anhydritic in part; no visible porosity; argillaceous in part.
- 5080-5110 Limestone-light gray; brownish gray; cream; cryptocrystalline to scattered slightly microcrystalline; dense; scattered slightly argillaceous; no visible porosity; no stain; abundant chert; scattered traces of secondary mineralization (calcite and quartz)-fracture filling.
- 5110-5120 Limestone-light gray; light brownish gray; microcrystalline to scattered cryptocrystalline; scattered anhydrite in part; dolomitic in part; dense; no visible porosity; no stain; no cut; good mineral fluorescence; no hydrocarbon fluorescence.
- 5120-5140 Limestone-medium gray; scattered light gray; tan to cream; microsucrosic to scattered cryptocrystalline; dense; shaly; scattered anhydritic in part; no visible porosity; no stain.
- 5140-5160 Shale-black to dark gray; platy to blocky; moderately firm to hard; slightly calcareous; scattered limy in part; slightly carbonaceous in part; slightly silty in part.

- 5160-5190 Anhydrite-white; cream
- 5190-5210 Limestone-brown; tan; light grayish brown; cryptocrystalline; dense; anhydritic in part; no visible porosity; no stain; no cut; slightly argillaceous in part.
- 5210-5270 Anhydrite-white; cream; moderately firm to soft; scattered Limestone-light brown; light gray; light brownish gray; cryptocrystalline to scattered microcrystalline; dense; abundant anhydrite; no visible porosity; no stain; no cut.
- 5270-5290 Limestone-dark reddish brown; reddish gray; very shaly; micro-sucrosic; dense; no visible porosity; with Shale-reddish gray; blocky; limy in part; silty; moderately firm.
- 5290-5300 Limestone-dark reddish brown; dark brown; cryptocrystalline to microcrystalline; shaly in part; silty in part; dense; firm to hard; no visible porosity; no stain; no cut.
- 5300-5340 Shale-dark gray; black; splintery to platy; moderately firm to soft; calcareous; silty in part; Limestone-grayish brown; cryptocrystalline to microcrystalline; scattered fragmental; dense; no visible porosity; argillaceous in part; scattered anhydrite in part.
- 5340-5350 Limestone-white; light brown; tan; cream; sucrosic; sandy; dense; argillaceous in part; no visible porosity; anhydritic in part; scattered shaly in part; Anhydrite-white; cream.
- 5350-5360 Limestone-light to medium gray; brown; grayish brown; cryptocrystalline to microsucrosic; dense; no visible porosity; anhydritic in part; scattered Chert-brown to black.
- 5360-5380 Shale-dark gray to black; platy to splintery; slightly blocky in part; moderately firm; very calcareous to limy in part; with Limestone-brown; creamy; tan; abundant anhydrite, *this is anhydrite!* microsucrosic; dolomitic; no visible porosity; no stain; no cut.
- 5380-5390 Limestone-light gray; light brownish gray; microsucrosic to slightly sucrosic; dolomitic in part; scattered slightly anhydritic in part; no visible porosity; no stain; no cut; slightly argillaceous in part.
- 5390-5420 Shale-dark greenish gray; dark to medium gray; scattered black; platy to blocky; moderately firm; calcareous to slightly limy in part; with Limestone-light reddish brown; gray; brownish gray; microcrystalline to microsucrosic; dense; firm to scattered hard; argillaceous; scattered anhydrite in part; no visible porosity; no stain; no cut.
- 5420-5440 Anhydrite-cream; white to very light gray; soft; scattered Limestone inclusions.

- 5440-5460 Dolomite-light tan; very light brown; cream; very argillaceous; slightly chalky; slightly limy in part; microcrystalline to slightly microsucrosic; no visible porosity; no stain; no hydrocarbon fluorescence; good mineral fluorescence; scattered anhydrite in part; no cut.
- 5460-5490 Shale-greenish gray; medium gray; splintery to platy; slightly calcareous; soft to moderately firm; Limestone-brown; light grayish brown; microcrystalline to cryptosucrosic; moderately firm to firm; dense; dolomitic in part; argillaceous; scattered white Anhydrite; no visible porosity; no stain; good mineral fluorescence; no hydrocarbon fluorescence; no cut.
- 5490-5510 Shale-black; dark gray; blocky to splintery; soft; carbonaceous; slightly calcareous.

## FINAL ANALYSIS

The Raymond T. Duncan No. 1-10 Bradford Canyon Unit was drilled to a total depth of 5510 feet into the Chimney Rock Formation. This wildcat drilled to explore a seismic high and to see if a build-up existed in the Ismay and Desert Creek Members of the Paradox Formation. This well was drilled with no geological difficulties and only a minor engineering problem with the float coming loose at the bottom of the surface casing. This problem caused a cancellation of the core and required us to ream the float. The crews of Arapahoe Drilling Rig No. 11 performed satisfactorily and efficiently. The crew of mudloggers from Tooke Engineering also did a commendable job.

In evaluating the zones penetrated at this location, the Ismay zone did not have any porosity and had no shows. The anticipated porosity zone was anhydrite. The Desert Creek Zone was predominately limestone with only minor dolomite. It exhibited very little or no build-up with very thin tight porosity (only minor amounts of gas with no oil).

No significant reservoir capabilities were penetrated at this location. It was recommended that this well be plugged and abandoned.



STATE OF UTAH  
NATURAL RESOURCES & ENERGY  
Oil, Gas & Mining

Scott M. Matheson, Governor  
Temple A. Reynolds, Executive Director  
Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

March 7, 1983

Raymond T. Duncan  
1777 South Harrison, P-1  
Denver, Colorado 80210

Re: Well No. Bradford Canyon Unit  
# 1-10  
Sec. 10, T. 37S, R. 24E.  
San Juan County, Utah

Well No. Bradford Canyon Unit  
# 1-25  
Sec. 25, T. 37S, R. 24E.  
San Juan County, Utah

Gentlemen:

This letter is to advise you that the Well Completion or Recompletion Report and Log for the above mentioned wells are due and have not been filed with this office as required by our rules and regulations.

Please complete the enclosed Form OGC-3, in duplicate, and forward them to this office as soon as possible.

We will be happy to acknowledge receipt of your response to this notice if you will include an extra copy of the transmittal letter with a place for our signature, and a self addressed envelope for the return. Such acknowledgment should avoid unnecessary mailing of a firm second notice from our agency.

Thank you for your cooperation relative to the above.

Respectfully,

DIVISION OF OIL, GAS AND MINING

Cari Furse  
Well Records Specialist

CF/cf  
Enclosure

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input checked="" type="checkbox"/> Other _____				5. LEASE DESIGNATION AND SERIAL NO. U-12414	
b. TYPE OF COMPLETION: NEW WELL <input type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> Other <u>Plugged</u>				6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A	
2. NAME OF OPERATOR Raymond T. Duncan				7. UNIT AGREEMENT NAME Bradford Canyon	
3. ADDRESS OF OPERATOR 1777 So. Harrison, P-1, Denver, CO 80210				8. FARM OR LEASE NAME Bradford Canyon	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 1690' FSL; 1850' FWL, NE SW At top prod. interval reported below same At total depth				9. WELL NO. 1-10	
14. PERMIT NO. <u>43-037-30826</u> DATE ISSUED 10-14-82				10. FIELD AND POOL, OR WILDCAT Wildcat	
15. DATE SPUDDED 11-9-82 16. DATE T.D. REACHED 11-25-82 17. DATE COMPL. (Ready to prod.) N/A 18. ELEVATIONS (DF, REB, RT, GR, ETC.)* 5120' GL 19. ELEV. CASINGHEAD				11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec. 10-37S-24E	
20. TOTAL DEPTH, MD & TVD 5510' 21. PLUG, BACK T.D., MD & TVD 22. IF MULTIPLE COMPL., HOW MANY* 0 23. INTERVALS DRILLED BY → 0-5510' ROTARY TOOLS CABLE TOOLS				12. COUNTY OR PARISH San Juan	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* N/A				13. STATE UT	
25. TYPE ELECTRIC AND OTHER LOGS RUN <u>Sonic, Neutron, Laterolog, Cyberlook</u>				25. WAS DIRECTIONAL SURVEY MADE No	
26. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8"	48#	118'	17 1/2"	150 sx. C1 B w/addit.	
8 5/8"	24#	2465'	12 1/4"	1500 sx. C1 B w/addit.	
29. LINER RECORD					
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	
N/A					
30. TUBING RECORD					
SIZE	DEPTH SET (MD)	PACKER SET (MD)			
N/A					
31. PERFORATION RECORD (Interval, size and number) N/A			32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED MAR 18 1993		
33.* PRODUCTION					
DATE FIRST PRODUCTION N/A		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Plugged			WELL STATUS (Producing or Plugged) Plugged
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)					TEST WITNESSED BY J.A. Browning
35. LIST OF ATTACHMENTS Geologist's Report					
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records					
SIGNED <u>John W. Lowry</u>		TITLE <u>Dist. Drlg. &amp; Prod. Supt.</u>		DATE <u>3/16/83</u>	

\* (See Instructions and Spaces for Additional Data on Reverse Side)



# FORMATION TOPS

(K.B.-5133')

<u>FORMATION</u>	<u>SAMPLE TOP</u>	<u>E-LOG TOP</u>	<u>SUBSEA</u>
MISSISSIPPIAN-			
Llanos	4085'	4055'	+1078
Lower Ismay	5126'	5167'	+34
Lower Ismay	5309'	5345'	-212
Llanos Shale	5361'	5395'	-262
Robert Creek	5382'	5420'	-287
Lower Desert Creek	5446'	5473'	-340
Chimney Rock	5477'	5490'	-357
Total Depth	5510'	5517'	-384

DRILL STEM TEST DATA

DRILL STEM TEST NO. 1: No test was run in the Ismay

DRILL STEM TEST NO. 2: No test was run in the Desert Creek

## FINAL ANALYSIS

The Raymond T. Duncan No. 1-10 Bradford Canyon Unit was drilled to a total depth of 5510 feet into the Chimney Rock Formation. This wildcat drilled to explore a seismic high and to see if a build-up existed in the Ismay and Desert Creek Members of the Paradox Formation. This well was drilled with no geological difficulties and only a minor engineering problem with the float coming loose at the bottom of the surface casing. This problem caused a cancellation of the core and required us to ream the float. The crews of Arapahoe Drilling Rig No. 11 performed satisfactorily and efficiently. The crew of mudloggers from Tooke Engineering also did a commendable job.

In evaluating the zones penetrated at this location, the Ismay zone did not have any porosity and had no shows. The anticipated porosity zone was anhydrite. The Desert Creek Zone was predominately limestone with only minor dolomite. It exhibited very little or no build-up with very thin tight porosity (only minor amounts of gas with no oil).

No significant reservoir capabilities were penetrated at this location. It was recommended that this well be plugged and abandoned.

June 12, 2006

Utah Division of Oil, Gas and Minerals  
1594 West North Temple  
Suite 1210  
Box 145801  
Salt Lake City, Utah 84114

Re: Bradford Canyon #1-10  
Section 10, T-37-S, R-24-E  
San Juan County, Utah

Ladies and Gentlemen:

Pursuant to R649-2-11, CrownQuest Operating Company, LLC, the Operator of the above captioned well, hereby requests that you keep confidential all information you receive for the above captioned well.

Thanks for your attention to this matter. Should you have any questions please do not hesitate to contact me.

Very truly yours,

J. J. C. C.

J. T. Lent, Jr.  
Vice President  
Engineering & Operations

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0136  
Expires November 30, 2000

5. Lease Serial No.  
UTU 84683

6. If Indian, Allottee or Tribe Name  
n/a

7. If Unit or CA Agreement, Name and No.

8. Lease Name and Well No.  
Bradford Canyon 1-10

9. API Well No.  
43 037 30826

10. Field and Pool, or Exploratory  
Pennsylvanian

11. Sec., T., R., M., or 131k. and Survey or Area  
Section 10, T37S, R24E

12. County or Parish  
San Juan

13. State  
Utah

1a. Type of Work: ☐ DRILL ☒ REENTER

1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☐ Single Zone ☐ Multiple Zone

2. Name of Operator  
CrownQuest Operating

3a. Address 3b. Phone No. (include area code)

303 Wall, Suite 1400, Midland TX 79702 (432) 685-3116

4. Location of Well (Report location clearly and in accordance with any State requirements. \*)

At surface 1690' FSL x 1850' FWL

At proposed prod. zone same

14. Distance in miles and direction from nearest town or post office\*  
11 miles east by southeast from Blanding, Utah

15. Distance from proposed\* location to nearest property or lease line, ft.  
(Also to nearest drig. unit line, if any)  
1690'

16. No. of Acres in lease  
2234

17. Spacing Unit dedicated to this well  
160

18. Distance from proposed location\* to nearest well, drilling, completed, applied for, on this lease, ft.  
None

19. Proposed Depth  
5517'

20. BLJA/BIA Bond No. on file

~~RLB-0007554~~ 1775000218

21. Elevations (Show whether DF, KDB, RT, GL, etc.)

5120' GL

22. Approximate date work will start\*

09/01/06

23. Estimated duration

60 days

24. Attachments drilling plan, surface use plan

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).

4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature

Name (Printed/Typed)

Date

Robert R. Griffie

6/15/06

Title

Operations Manager, agent for CrownQuest

Approved by (Signature)

Name (Printed/Typed)

Date

Title

Assistant Field Manager,  
Division of Resources

Office

Division of Resources  
Moab Field Office

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

CONDITIONS OF APPROVAL ATTACHED

AUG 28 2006



# UTAH WELL LOCATION PLAT

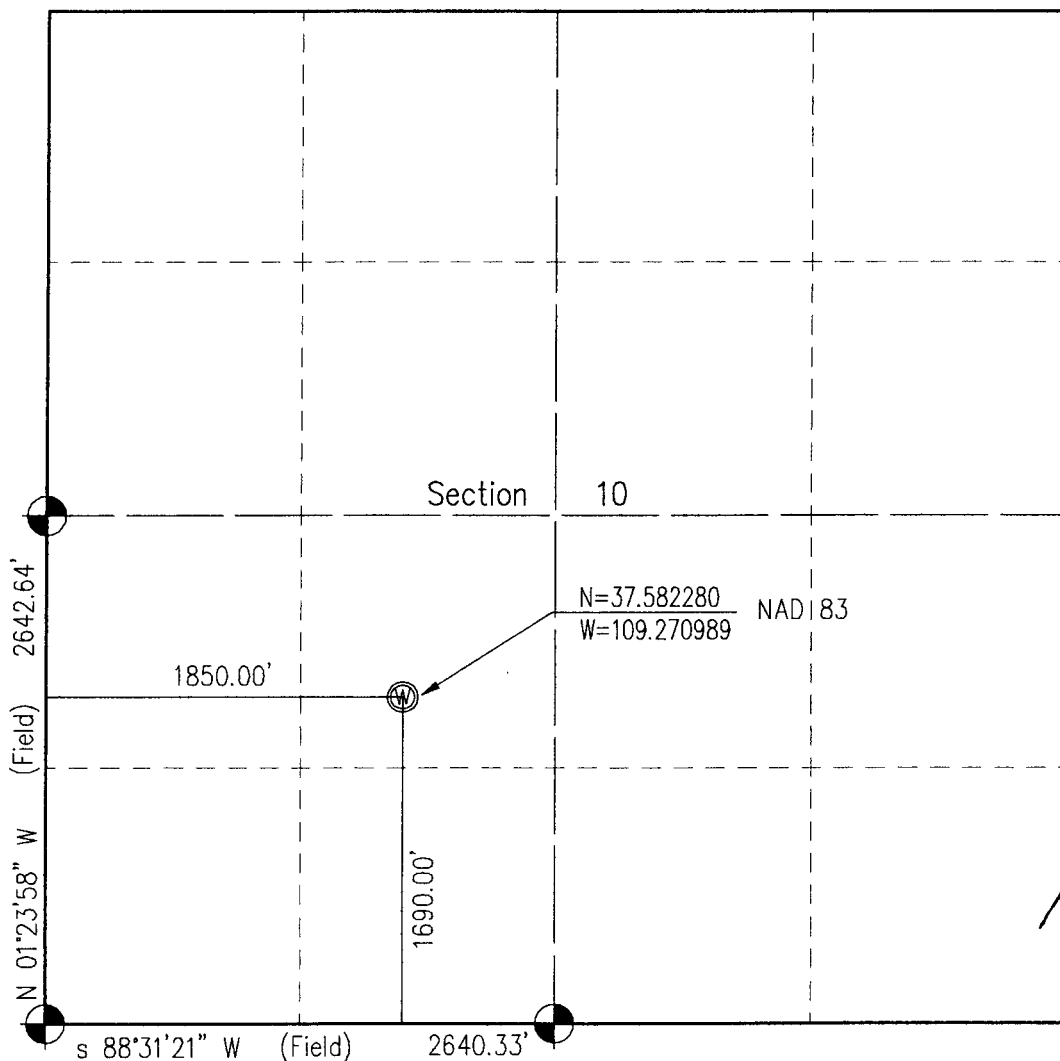
OPERATOR Crown Quest Operating  
 LEASE Bradford Canyon WELL NO. 1-10  
 SECTION 10 TOWNSHIP 37 South RANGE 24 East 6th, P.M.  
 COUNTY San Juan UTAH  
 FOOTAGE LOCATION OF WELL: 1690 FEET FROM THE South LINE and  
1850 FEET FROM THE West LINE and  
 GROUND LEVEL ELEVATION: 5033.28'  
 SURFACE USE WITHIN 200' RADIUS: No Improvements Within 200' - Pasture  
 BASIS OF BEARING: GPS Data - NAD 83  
 BASIS OF ELEVATION: GPS Data - Diff. corrections Omnistar



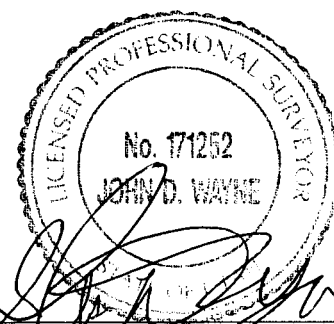
500' 500'  
 1" = 1000'

Some information on this plat is based on information taken from previous surveys, record information, or collateral evidence and may not reflect that which may be disclosed by a complete boundary survey. This plat is not to be relied on for the establishment of surface boundaries, fences, buildings, or other future improvements.

 GLO BC  
 WELL Location



I hereby certify that the proposed well location shown on this plat was prepared from field notes of an actual survey by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief, and that there are no visible improvements within 200 feet of this proposed wellhead, unless noted otherwise.



John D. Wayne  
 Professional L.S. #171252  
 State of Utah

JUNE 24, 2006

Date Surveyed:

JUNE 26, 2006

Date Platted:

SCALE: 1" = 1000'

CrownQuest Operating LLC  
**Bradford Canyon #1-10**  
Lease U-84683  
NE/SW Section 10, T37S, R24E  
San Juan County, Utah

**A COMPLETE COPY OF THIS PERMIT SHALL BE KEPT ON LOCATION, from the beginning of site construction through well completion, and shall be available to contractors to ensure compliance.**

#### CONDITIONS OF APPROVAL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be advised that CrownQuest Operating, LLC is considered to be the operator of the above well and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands.

Bond coverage for this well is provided by **UTB000218** (Principal - CrownQuest Operating, LLC) via surety consent as provided for in 43 CFR 3104.2.

This office will hold the aforementioned operator and bond liable until the provisions of 43 CFR 3106.7-2 continuing responsibility are met.

This permit will be valid for a period of one year from the date of approval. After permit termination, a new application must be filed for approval.

All lease operations will be conducted in full compliance with applicable regulations (43 CFR 3100), Onshore Oil and Gas Orders, lease terms, notices to lessees, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors.

#### A. DRILLING PROGRAM

1. Concurrent approval from the State of Utah, Division of Oil, Gas & Mining (DOGM) is required before conducting any surface disturbing activities.
2. The proposed well control equipment (3M system for drilling, and 5M system for completion) is appropriate for anticipated conditions. For clarification, the proposed choke manifold configuration, with only a 2-inch blow-down line (straight line through the choke manifold), warrants a 2M rating; however, this is acceptable for anticipated conditions.

## B. SURFACE

1. Closed to surface use (access and well pad construction and drilling) within crucial deer winter habitat from December 15 to April 30. This seasonal condition would not affect maintenance and operational activities for production. The Field Manager may grant an exception on a case-by case basis if legal rights would be curtailed, the deer are not present at a specific project location or the activity can be conducted so that the deer would not be adversely affected.
2. As prescribed in the "Utah Field Office Guidelines for Raptor Protection from Human and Land Use Disturbances" written by the U.S. Fish and Wildlife Service, a raptor survey and clearance of the affected area surrounding the proposed drill site would be accomplished prior to work initiation if work is to be done between February 1 and August 31. If the survey locates an active raptor nesting territory which may be affected by the proposal, no work would be allowed until the nestlings have fledged.
3. Prior to any construction activities, a BLM approved archeological monitor shall identify an avoidance area that will ensure protection for the cultural site found during the inventory done for the Bradford Canyon 1-10. The avoidance area shall be clearly marked with blue flagging material and a steel t-post and a strand of wire fence erected.



## C. REQUIRED APPROVALS, REPORTS AND NOTIFICATIONS

Required verbal notifications are summarized in Table 1, attached.

Building Location- Contact the BLM Natural Resource Protection Specialist at least 48-hours prior to commencing construction of location.

Spud- The spud date will be reported to BLM 24-hours prior to spudding. Written notification in the form of a Sundry Notice (Form 3160-5) will be submitted to the Moab Field Office within 24-hours after spudding, regardless of whether spud was made with a dry hole digger or big rig.

Daily Drilling Reports- Daily drilling reports shall detail the progress and status of the well and shall be submitted to the Moab Field Office on a weekly basis.

Oil and Gas Operations Reports (OGORs)- Production from this well shall be reported to Minerals Management Service (MMS) on a monthly basis.

Sundry Notices- There will be no deviation from the proposed drilling and/or workover program without prior approval. "Sundry Notices and Reports on Wells" (Form 3160-5) will be filed, with the Moab Field Office, for approval of all changes of plans and subsequent operations in accordance with 43 CFR 3162.3-2. Safe drilling and operating practices must be observed.

Drilling Suspensions- Operations authorized by this permit shall not be suspended for more than 30 days without prior approval of the Moab Field Office. All conditions of this approval shall be applicable during any operations conducted with a replacement rig.

Undesirable Events- Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be immediately reported to the BLM in accordance with requirements of NTL-3A.

Cultural Resources- If cultural resources are discovered during construction, work that might disturb the resources is to stop, and the Monticello Field Office is to be notified.

First Production- Should the well be successfully completed for production, the Moab Field Office will be notified when the well is placed in producing status. Such notification may be made by phone, but must be followed by a sundry notice or letter not later than five business days following the date on which the well is placed into production.

A first production conference will be scheduled through the Monticello Field Office as soon as the productivity of the well is apparent.

Well Completion Report- Whether the well is completed as a dry hole or as a producer, "Well Completion or Recompletion Report and Log" (Form 3160-4) will be submitted to the Moab Field Office not later than thirty-days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs, core descriptions, core analyses, well test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. When requested, samples (cuttings and/or samples) will be submitted to the Moab Field Office.

Venting/Flaring of Gas- Gas produced from this well may not be vented/flared beyond an initial, authorized test period of 30 days or 50 MMcf, whichever first occurs, without the prior, written approval of the Moab Field Office. Should gas be vented or flared without approval beyond the authorized test period, the well may be ordered shut-in until the gas can be captured or approval to continue the venting/flaring as uneconomic is granted. In such case, compensation to the lessor shall be required for that portion of the gas that is vented/flared without approval and which is determined to have been avoidably lost.

Produced Water- Produced waste water may be confined to an unlined pit for a period not to exceed 90 days after initial production. During the 90 day period, an application for approval of a permanent disposal method and location, along with the required water analysis, will be submitted to the Moab Field Office for approval pursuant to Onshore Oil and Gas Order No. 7.

Off-Lease Measurement, Storage, Commingling- Prior approval must be obtained from the Moab Field Office for off-lease measurement, off-lease storage and/or commingling (either down-hole or at the surface).

Plugging and Abandonment- If the well is completed as a dry hole, plugging instructions must be obtained from the Moab Field Office prior to initiating plugging operations.

A "Subsequent Report of Abandonment" (Form 3160-5) will be filed with the Moab Field Office within thirty-days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Upon completion of approved plugging, a regulation marker will be erected in accordance with 43 CFR 3162.6. Final abandonment will be approved when the Monticello Field Office determines that surface reclamation work has successfully restored desirable vegetation.

#### TABLE 1 NOTIFICATIONS

Notify Jeff Brown (435-587-1525) of the BLM, Monticello Field Office for the following:

2 days prior to commencement of dirt work, construction and reclamation;

1 day prior to spudding;

50 feet prior to reaching the surface casing (9-5/8") setting depth;

3 hours prior to testing BOP

If the person at the above number cannot be reached, notify the Moab Field Office at (435) 259-2100. If unsuccessful, contact the person listed below.

Well abandonment operations require 24 hour advance notice and prior approval. In the case of newly drilled dry holes, verbal approval can be obtained by calling the Moab Field Office at (435) 259-2100. If approval is needed after work hours, you may contact:

Eric Jones, Petroleum Engineer	Office: (435) 259-2117
	Home: (435) 259-2214

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐  
(highlight changes)

<b>APPLICATION FOR PERMIT TO DRILL</b>				5. MINERAL LEASE NO: <b>UTU 84683</b>	6. SURFACE: <b>Federal</b>
1A. TYPE OF WORK:    DRILL <input type="checkbox"/> REENTER <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>				7. IF INDIAN, ALLOTTEE OR TRIBE NAME: <b>n/a</b>	
B. TYPE OF WELL:    OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER _____    SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>				8. UNIT or CA AGREEMENT NAME:	
2. NAME OF OPERATOR: <b>CrownQuest Operating</b>				9. WELL NAME and NUMBER: <b>Bradford Canyon 1-10</b>	
3. ADDRESS OF OPERATOR: <b>303 Wall, Suite 1400    Midland    TX    79702</b>				10. FIELD AND POOL, OR WILDCAT: <b>Pennsylvanian / Undersaturated</b>	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: <b>1690' FSL x 1850' FWL</b> AT PROPOSED PRODUCING ZONE: <b>same</b>				11. QTR/QTR SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NESW 10 37S 24E</b>	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: <b>11 miles East by Southeast from Blanding, Utah</b>				12. COUNTY: <b>San Juan</b>	13. STATE: <b>UTAH</b>
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) <b>1690'</b>		16. NUMBER OF ACRES IN LEASE: <b>2234</b>		17. NUMBER OF ACRES ASSIGNED TO THIS WELL: <b>160</b>	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) <b>none</b>		19. PROPOSED DEPTH: <b>5,688</b>		20. BOND DESCRIPTION: <b>UTB000218</b>	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): <b>5120' GL</b>		22. APPROXIMATE DATE WORK WILL START: <b>9/1/2006</b>		23. ESTIMATED DURATION: <b>60</b>	

24. PROPOSED CASING AND CEMENTING PROGRAM			
SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT
			see attached details

25. ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER	<input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

NAME (PLEASE PRINT) Robert R. Griffie    TITLE Operations Manager, agent for CrownQuest

SIGNATURE *Robert R. Griffie*    DATE 2/28/2007

(This space for State use only)

API NUMBER ASSIGNED: 43-037-30826

**Approved by the  
Utah Division of  
Oil, Gas and Mining**  
APPROVAL:

**RECEIVED  
MAR 07 2007**

(11/2001)

**Federal Approval of this  
Action is Necessary**

Date: 10-15-2007  
By: *[Signature]*

DIV. OF OIL, GAS & MINING



# UTAH WELL LOCATION PLAT

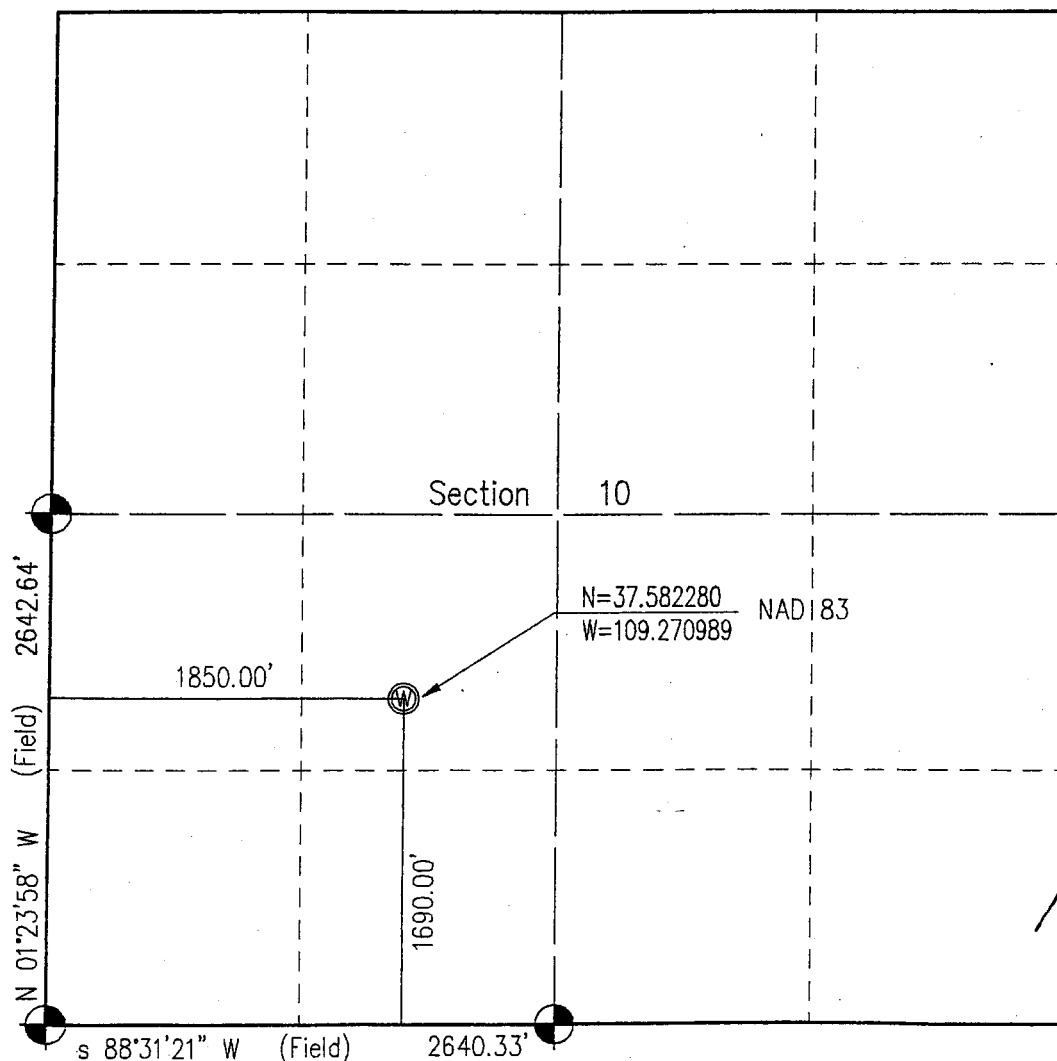
OPERATOR Crown Quest Operating  
 LEASE Bradford Canyon WELL NO. 1-10  
 SECTION 10 TOWNSHIP 37 South RANGE 24 East 6th, P.M.  
 COUNTY San Juan UTAH  
 FOOTAGE LOCATION OF WELL: 1690 FEET FROM THE South LINE and  
1850 FEET FROM THE West LINE and  
 GROUND LEVEL ELEVATION: 5033.28'  
 SURFACE USE WITHIN 200' RADIUS: No Improvements Within 200' - Pasture  
 BASIS OF BEARING: GPS Data - NAD 83  
 BASIS OF ELEVATION: GPS Data - Diff. corrections Omnistar



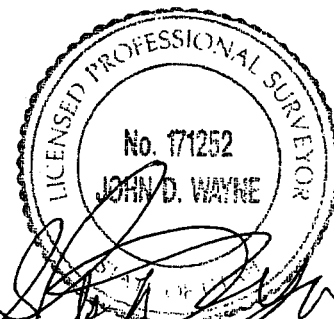
500' 500'  
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-  GLO BC
-  WELL Location



I hereby certify that the proposed well location shown on this plat was prepared from field notes of an actual survey by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief, and that there are no visible improvements within 200 feet of this proposed wellhead, unless noted otherwise.



John D. Wayne  
 Professional L.S. #171252  
 State of Utah

JUNE 24, 2006

Date Surveyed:

JUNE 26, 2006

Date Platted:

SCALE: 1" = 1000'

CrownQuest Operating LLC  
**Bradford Canyon #1-10**  
Lease U-84683  
NE/SW Section 10, T37S, R24E  
San Juan County, Utah

**A COMPLETE COPY OF THIS PERMIT SHALL BE KEPT ON LOCATION, from the beginning of site construction through well completion, and shall be available to contractors to ensure compliance.**

#### CONDITIONS OF APPROVAL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be advised that CrownQuest Operating, LLC is considered to be the operator of the above well and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands.

Bond coverage for this well is provided by **UTB000218** (Principal - CrownQuest Operating, LLC) via surety consent as provided for in 43 CFR 3104.2.

This office will hold the aforementioned operator and bond liable until the provisions of 43 CFR 3106.7-2 continuing responsibility are met.

This permit will be valid for a period of one year from the date of approval. After permit termination, a new application must be filed for approval.

All lease operations will be conducted in full compliance with applicable regulations (43 CFR 3100), Onshore Oil and Gas Orders, lease terms, notices to lessees, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors.

#### A. DRILLING PROGRAM

1. Concurrent approval from the State of Utah, Division of Oil, Gas & Mining (DOGM) is required before conducting any surface disturbing activities.
2. The proposed well control equipment (3M system for drilling, and 5M system for completion) is appropriate for anticipated conditions. For clarification, the proposed choke manifold configuration, with only a 2-inch blow-down line (straight line through the choke manifold), warrants a 2M rating; however, this is acceptable for anticipated conditions.

## B. SURFACE

1. Closed to surface use (access and well pad construction and drilling) within crucial deer winter habitat from December 15 to April 30. This seasonal condition would not affect maintenance and operational activities for production. The Field Manager may grant an exception on a case-by case basis if legal rights would be curtailed, the deer are not present at a specific project location or the activity can be conducted so that the deer would not be adversely affected.
2. As prescribed in the "Utah Field Office Guidelines for Raptor Protection from Human and Land Use Disturbances" written by the U.S. Fish and Wildlife Service, a raptor survey and clearance of the affected area surrounding the proposed drill site would be accomplished prior to work initiation if work is to be done between February 1 and August 31. If the survey locates an active raptor nesting territory which may be affected by the proposal, no work would be allowed until the nestlings have fledged.
3. Prior to any construction activities, a BLM approved archeological monitor shall identify an avoidance area that will ensure protection for the cultural site found during the inventory done for the Bradford Canyon 1-10. The avoidance area shall be clearly marked with blue flagging material and a steel t-post and a strand of wire fence erected.

### C. REQUIRED APPROVALS, REPORTS AND NOTIFICATIONS

Required verbal notifications are summarized in Table 1, attached.

Building Location- Contact the BLM Natural Resource Protection Specialist at least 48-hours prior to commencing construction of location.

Spud- The spud date will be reported to BLM 24-hours prior to spudding. Written notification in the form of a Sundry Notice (Form 3160-5) will be submitted to the Moab Field Office within 24-hours after spudding, regardless of whether spud was made with a dry hole digger or big rig.

Daily Drilling Reports- Daily drilling reports shall detail the progress and status of the well and shall be submitted to the Moab Field Office on a weekly basis.

Oil and Gas Operations Reports (OGORs)- Production from this well shall be reported to Minerals Management Service (MMS) on a monthly basis.

Sundry Notices- There will be no deviation from the proposed drilling and/or workover program without prior approval. "Sundry Notices and Reports on Wells" (Form 3160-5) will be filed, with the Moab Field Office, for approval of all changes of plans and subsequent operations in accordance with 43 CFR 3162.3-2. Safe drilling and operating practices must be observed.

Drilling Suspensions- Operations authorized by this permit shall not be suspended for more than 30 days without prior approval of the Moab Field Office. All conditions of this approval shall be applicable during any operations conducted with a replacement rig.

Undesirable Events- Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be immediately reported to the BLM in accordance with requirements of NTL-3A.

Cultural Resources- If cultural resources are discovered during construction, work that might disturb the resources is to stop, and the Monticello Field Office is to be notified.

First Production- Should the well be successfully completed for production, the Moab Field Office will be notified when the well is placed in producing status. Such notification may be made by phone, but must be followed by a sundry notice or letter not later than five business days following the date on which the well is placed into production.

A first production conference will be scheduled through the Monticello Field Office as soon as the productivity of the well is apparent.

Well Completion Report- Whether the well is completed as a dry hole or as a producer, "Well Completion or Recompletion Report and Log" (Form 3160-4) will be submitted to the Moab Field Office not later than thirty-days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs, core descriptions, core analyses, well test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. When requested, samples (cuttings and/or samples) will be submitted to the Moab Field Office.

Venting/Flaring of Gas- Gas produced from this well may not be vented/flared beyond an initial, authorized test period of 30 days or 50 MMcf, whichever first occurs, without the prior, written approval of the Moab Field Office. Should gas be vented or flared without approval beyond the authorized test period, the well may be ordered shut-in until the gas can be captured or approval to continue the venting/flaring as uneconomic is granted. In such case, compensation to the lessor shall be required for that portion of the gas that is vented/flared without approval and which is determined to have been avoidably lost.

Produced Water- Produced waste water may be confined to an unlined pit for a period not to exceed 90 days after initial production. During the 90 day period, an application for approval of a permanent disposal method and location, along with the required water analysis, will be submitted to the Moab Field Office for approval pursuant to Onshore Oil and Gas Order No. 7.

Off-Lease Measurement, Storage, Commingling- Prior approval must be obtained from the Moab Field Office for off-lease measurement, off-lease storage and/or commingling (either down-hole or at the surface).

Plugging and Abandonment- If the well is completed as a dry hole, plugging instructions must be obtained from the Moab Field Office prior to initiating plugging operations.

A "Subsequent Report of Abandonment" (Form 3160-5) will be filed with the Moab Field Office within thirty-days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Upon completion of approved plugging, a regulation marker will be erected in accordance with 43 CFR 3162.6. Final abandonment will be approved when the Monticello Field Office determines that surface reclamation work has successfully restored desirable vegetation.

TABLE 1

NOTIFICATIONS

Notify Jeff Brown (435-587-1525) of the BLM, Monticello Field Office for the following:

2 days prior to commencement of dirt work, construction and reclamation;

1 day prior to spudding;

50 feet prior to reaching the surface casing (9-5/8") setting depth;

3 hours prior to testing BOP

If the person at the above number cannot be reached, notify the Moab Field Office at (435) 259-2100. If unsuccessful, contact the person listed below.

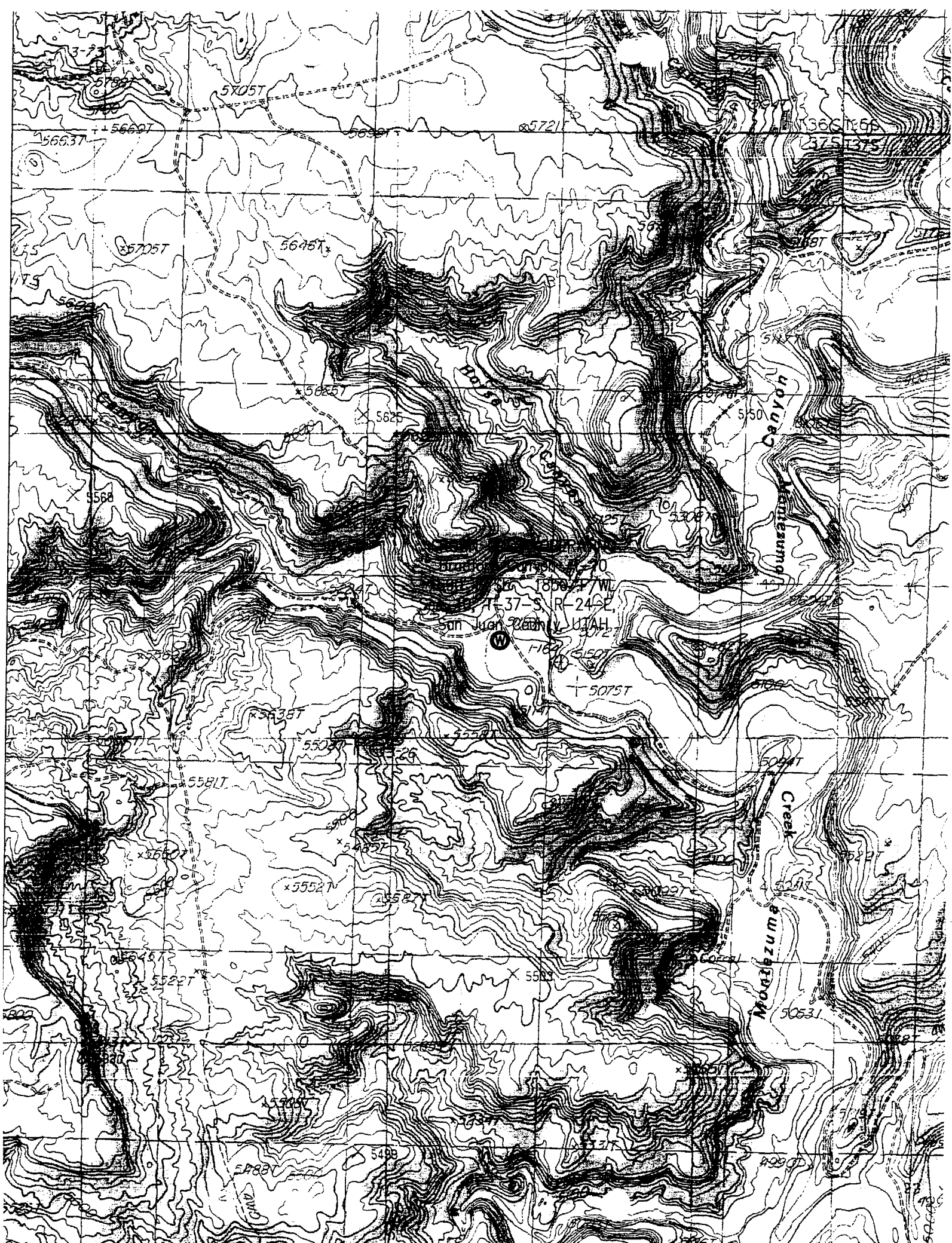
Well abandonment operations require 24 hour advance notice and prior approval. In the case of newly drilled dry holes, verbal approval can be obtained by calling the Moab Field Office at (435) 259-2100. If approval is needed after work hours, you may contact:

Eric Jones, Petroleum Engineer

Office: (435) 259-2117

Home: (435) 259-2214







## Re-Entry Plan

**Well Name:** Bradford Canyon 1-10

**Surface Location:** 1690' FSL x 1850' FWL, Section 10, T37S, R24E  
San Juan County, Utah

**Target Formation:** Pennsylvanian

**Elevation:** 5120' GL

### Geology:

Formation	Top	Probable Content
Morrison	Surface	
Entrada Ss	285'	potential fresh water
Navajo Ss	490'	potential fresh water
Chinle Fm	1380'	vari-color shale
Shinarump Ss	2080'	gas/water
Moenkopi Fm	2164'	brn-red sltst/sh
Cutler (top of Permian)	2270'	prpl crs ss/sh; potential fresh water
Honaker Trail (top of Penn)	3986'	ls; potential gas, brine
Upper Ismay	5166'	gas/oil/brine
Desert Creek	5420'	gas/oil/brine
TD	5517'	

**Logging Program:** Open hole logs have already been obtained and submitted. Cased hole neutron log to be run after setting 5 1/2" casing.

### Clean-out Fluid Program:

Interval	Fluid Type	Weight	Viscosity	Fluid Loss
0' - 2465'	fresh water	8.4 ppg	n/a	no control
2465' - 5517'	production brine/polymer	9.2 ppg	30 - 80 sec	10

### Casing Program:

Interval	Hole Diameter	Csg Size	Wt.	Grade	Thread
Conductor - Installed 11/9/82					
0' - 118'	17 1/2"	13 5/8"			
Surface - Installed 11/14/82					
0' - 1515'	12 1/4"	8 5/8"	24 ppf	J-55	STC
Production					
0' - 5517'	8 3/4"	5 1/2"	17 ppf	P110	LTC

**Tubing Program:** 0 - 5450', 2 3/8", 4.7 ppf, J55, EUE

## **BOPE and Wellhead Specifications and Testing:**

For clean-out operations from surface to TD: 9 5/8", 3000 psi weld on casing. 9 5/8", 3000 psi double gate BOP and 3000 psi annular preventor. 3000 psi choke manifold. (see figures 1 and 2). Pressure test BOPE to 3000 psi and 9 5/8" Surface casing to 1500 psi prior to drilling out of casing shoe.

For completion operations: 5 1/2" x 2 3/8", 5000 psi tree assembly. 7 1/16", 5000 psi double gate BOP system. 5000 psi choke manifold (see figures 3 and 4). Pressure test 5 1/2" casing to 5000 psi prior to frac'ing. The 5000 psi pressure rating is for possible frac treatment pressures and is far in excess of 3000 psi BOP equipment required to control anticipated formation pressure.

### **General Operation:**

- Actuate pipe rams once each day during clean-out operations. Actuate blind rams once each trip.
- An upper Kelly cock valve, with handle, will be available on the rig floor to fit each drilling string.
- BOP pit level drill will be conducted weekly for each drilling crew.
- All BOP tests and drills will be recorded in the daily drilling report.
- Blind and pipe rams will be equipped with extension hand wheels.

### **Cementing Program:**

13 5/8" Conductor Casing String: already installed and cemented.

8 5/8" Surface Casing String: already installed and cemented.

5 1/2" Production Casing String: Run casing with float shoe on bottom, float collar one joint from bottom. Install one centralizer in the middle of the first joint, one on every other collar from TD to the top of the Honaker Trail formation, and one inside the surface casing shoe. Cement with 251 sks 65/35 poz + 6% gel + 0.25 #/sk D130 + 18% D44 + .3% D167 + .15% D65A + 5 #/sk D24 (12.4 ppg, 1.93 cf/sk) followed by 275 sks 25/75 poz + 0.3% D65 + 0.15% D65 + 10% D44BWOW + 0.35% retarder (13.8 ppg, 1.47 cf/sk. Top of cement calculated to be at 2000'.

### **Special Clean-out Operations:**

None anticipated

**Additional Information:**

- This well is designed to be completed in the Pennsylvanian formations, based on cased-hole logs.
- A fresh water pressure gradient (.433 psi/ft) is anticipated. Adequate weighting material will be kept on location to maintain mud weight.
- LCM will be added to the mud system as required to maintain circulation.
- Estimated formation pressures:
  - Ismay 2237 psi
  - Desert Creek 2347 psi

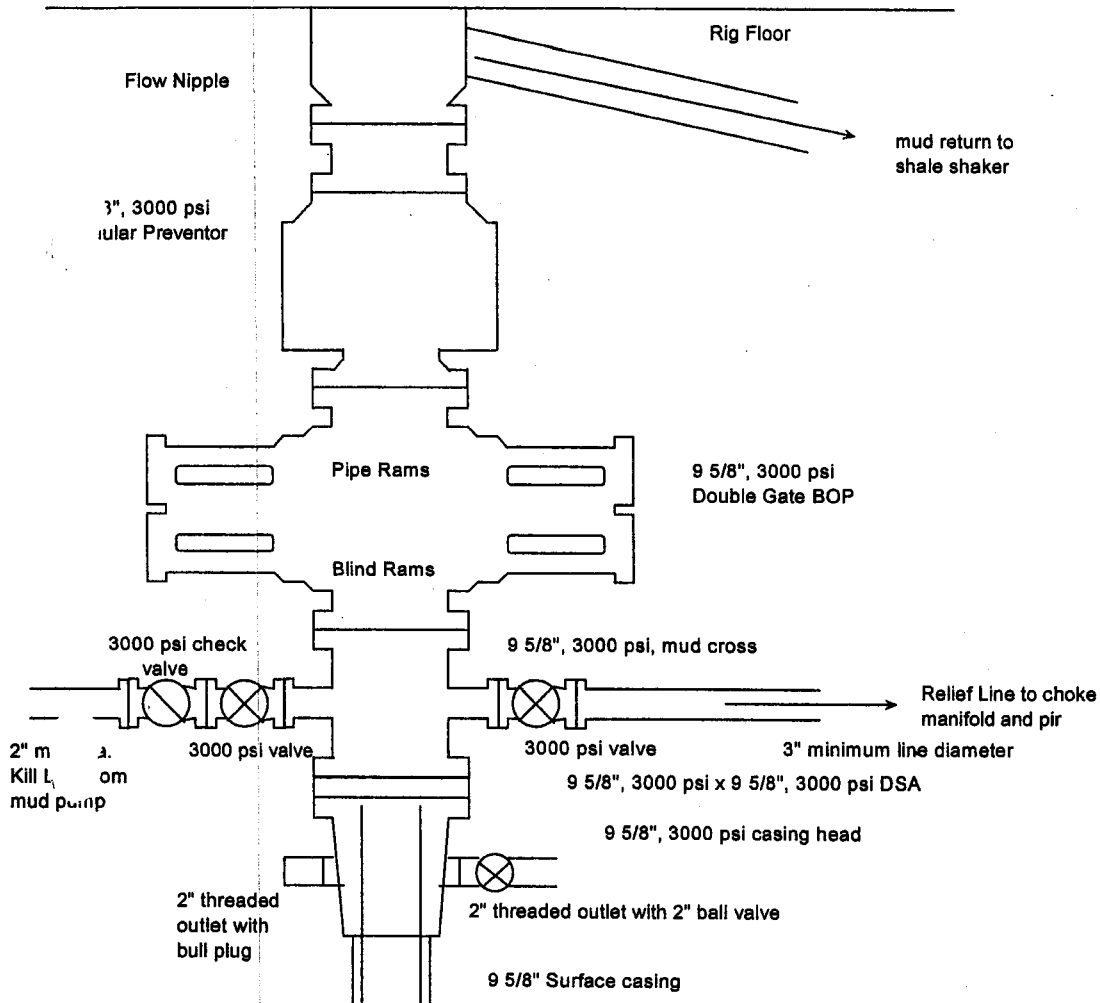
**Completion Information:**

The completion procedure will be prepared after cased hole logs are analyzed. The well will probably be completed by frac treatment.

Prepared by: Robert R. Griffie  
Operations Manager  
Agent for CrownQuest  
Date: 6/16/06

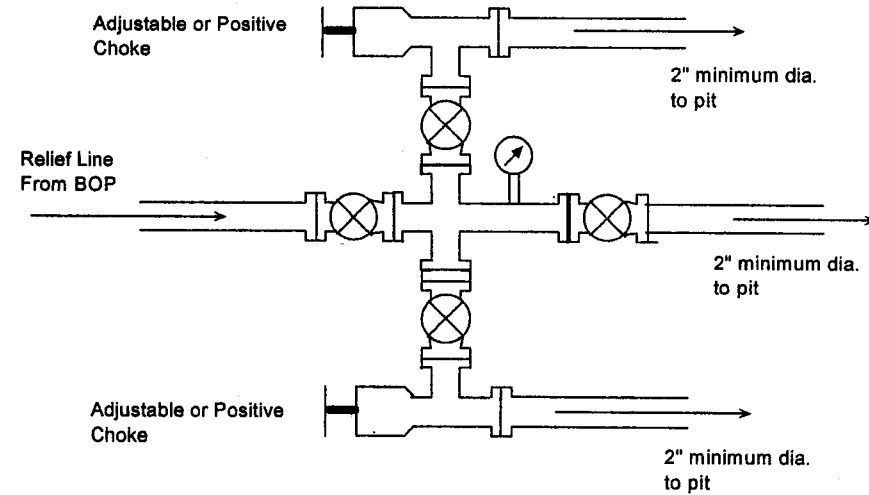
**Figure 1**

**9 5/8", 3000 psi BOP System**



BOP Installation from Surface Casing depth (2465') to TD (5517'). 9 5/8", 3000 psi double gate BOP equipped with blind and pipe rams, 9 5/8" Annular BOP. All equipment rated at 3000 psi or greater working pressure.

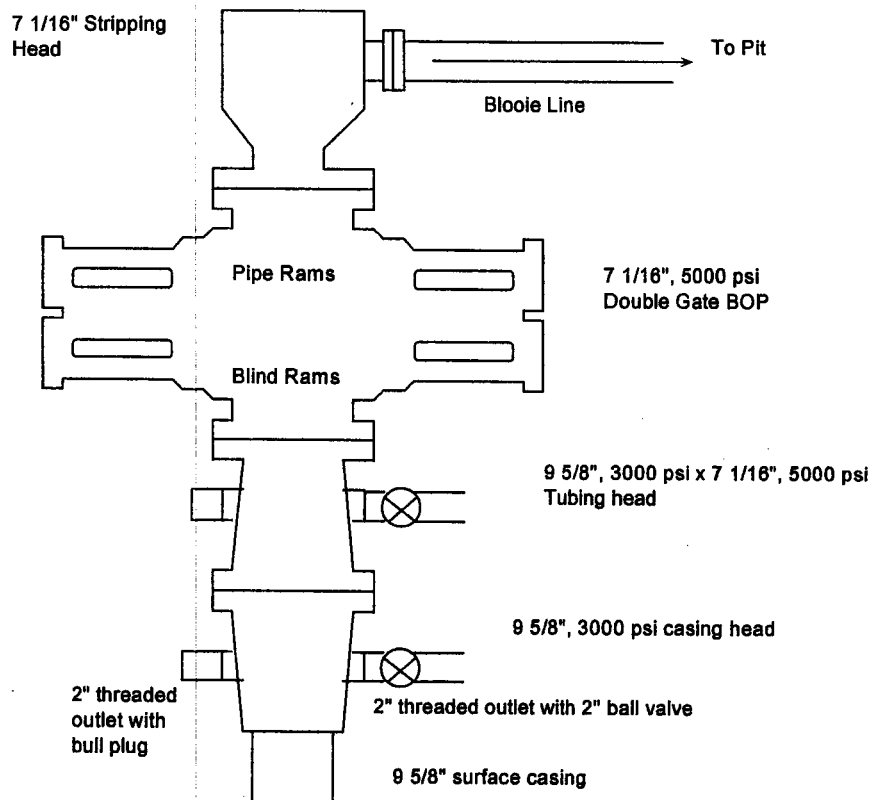
**Figure 2**



Choke manifold for BOP system shown in Figure 3. All equipment to be rated at 3000 psi or greater.

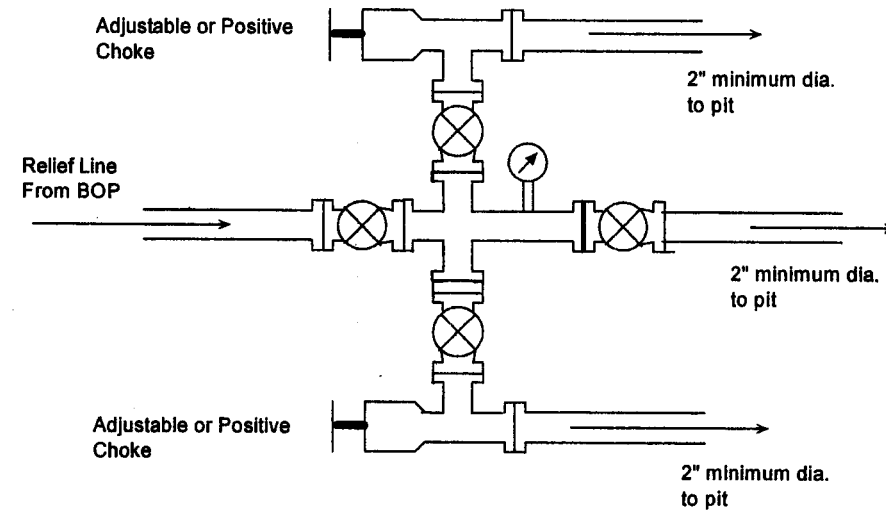
**Figure 3**

7 1/16", 5000 psi Completion Rig BOP System



BOP Installation for Completion operations. 7 1/16", 5000 psi double gate BOP equipped with blind and pipe rams. All equipment rated at 5000 psi or greater working pressure.

**Figure 4**



Choke manifold for BOP system shown in Figure 5. All equipment to be rated at 5000 psi or greater.

## **Bradford Canyon 1-10 Re-Entry Procedure**

Prepared by: Robert R. Griffie  
Operations Manager  
6/16/06

### **Notes:**

- 3000 psi BOP equipment is selected to drill out the cement plugs. Calculated maximum formation pressure is 2626 psi at 6064 ft, or a pressure gradient of 0.433 psi/ft.
- 5000 psi BOP equipment is selected for completion work based on possible flow back pressures after acidizing or hydraulic fracture treatments and not from expected formation pressure.
- Surface casing is set at 2465'. 8 5/8", 24 ppf, J55. YP = 2950 psi. Cemented to surface.
- In the original drilling operation, the operator tried to ream out the 8 5/8" casing at a reported depth of 2425' with an 8" reamer in order to get coring tools through (reference Intermountain Wellsite Geologists report by Jim Holst dated 1982). This was unsuccessful.

### **Procedure**

1. Construct location using original disturbed area (see diagram \_\_\_\_). Construct reserve pit and line. Dig out around dry hole marker. Remove marker. Construct and install cellar. Set rig anchors and test.
2. MIRU well service rig and equipment.
3. Weld on 8 5/8", 3000 psi casing head. Install 9 5/8", 3000 psi double gate BOPE and choke manifold.
4. PU 7 7/8" mill tooth bit, eight 4 3/4" dc's, and 2 7/8" work string. Drill out cement plug from surface to 30'. Use production brine for fluid. Clean out to cement plug at 2400'.
5. TOH.
6. Install test plug in casing head and pressure test casing head and BOPE to 3000 psi.
7. Pressure test 8 5/8" casing to 2500 psi.
8. TIH with bit and dc's and drill cement plug from and 2400' – 2550'. Clean out open hole to 3900' using fresh water, polymer, and gel fluid system. Drill out cement plugs from 3900' to 4100' and 5300' to TD of 5517'.
9. Circulate well clean and stabilize well bore.
10. TOH.
11. RU and run 5 1/2", 17 ppf, P-110, LTC casing. Install float shoe on bottom and float collar one joint from bottom. Centralize with 1 centralizer per casing collar from TD to 3900', and one centralizer at 2420' (inside surface casing). Land casing in full tension.



12. Cement as follows: 251 sks 65/35 poz + 6% gel + 0.25 #/sk D130 + 18% D44 + .3% D167 + .15% D65A + 5 #/sk D24 (12.4 ppg, 1.93 cf/sk) followed by 275 sks 25/75 poz + 0.3% D65 + 0.15% D65 + 10% D44BWOW + 0.35% retarder (13.8 ppg, 1.47 cf/sk). Slurry volumes designed to bring cement 500' up into 8 5/8" casing. Calculations based on 50% excess over open hole volume.
13. WOC 72 hours or as indicated by pilot testing, for cement to achieve full compressive strength.
14. While WOC, ND 9 5/8", 3000 psi BOP. NU 9 5/8", 3000 psi x 7 1/16", 5000 psi casing head. NU 7 1/16", 5000 psi BOP.
15. Pressure test casing and BOP to 5000 psi.
16. PU bit. TIH and clean out to PBTD of 5474' +/- . Circulate casing clear. TOH.
17. TIH to PBTD with casing scraper.
18. Load casing with 4% KCL water. Insure that all additional load water is 4% KCL.
19. TOH.
20. Run cased-hole logs and evaluate.
21. Select completion interval based on cased-hole logs. Completion may be accomplished by acidizing and/or frac (to be determined). Potential completion possibilities are of Pennsylvanian age from 5517' to 3900' (mid Cutler).
22. After completing, evaluate zones.

# Bradford Canyon 1-10 Cementing Calculations

TD	5517 ft		
hole dia	7.875 inches		
		7 7/8 x 5 1/2 cap =	0.1733 cf/lf
surf csg	2465 ft	landing depth	
		8 5/8", 24 ppf, J55	
		yp =	2950 psi
		8 5/8 x 5 1/2 cap =	0.1926 cf/lf
prod csg	5517 ft	landing depth	
		5 1/2", 17 ppf, N80	
		yp =	7740 psi
		5 1/2 cap =	0.1305 cf/lf
HT top	3986 ft		
TOC	2000 ft		

## Lead Slurry

65/35 POZ + 6% gel + 0.25 #/sk D130 + 18% D44 + 0.3% D167 + 0.15% D65A + 5#/sk D24

wt 12.4 ppg

yield 1.93 cf/sk

## Tail Slurry

25/75 poz + 0.3% D65 + 10% D44BWOW + 0.35% retarder

wt 13.8 ppg

yield 1.47 cf/sk

Estimate 50% excess over open hole volume

## Tail Volume

403.7255 cf

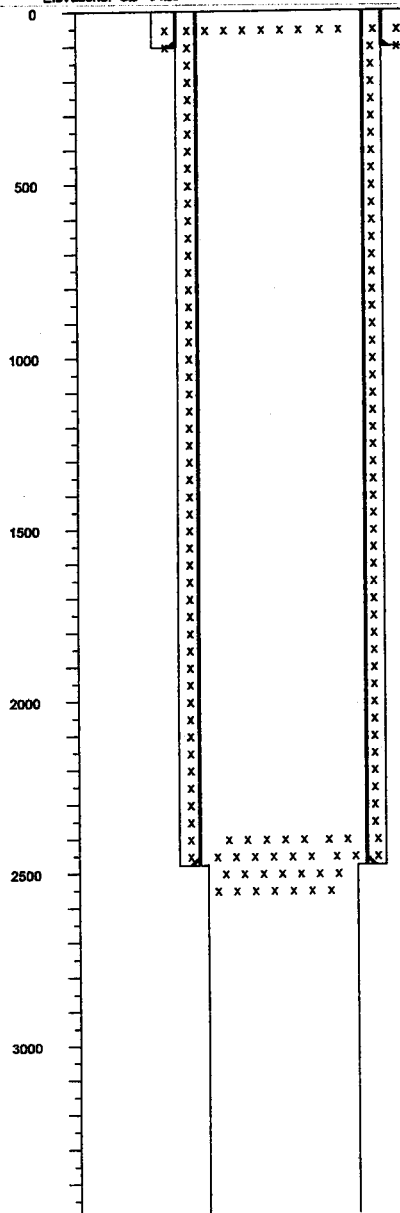
274.6432 sks

## Lead Volume

484.943 cf

251.2658 sks

Elevations: GL - 5120'



17 1/2" Conductor hole  
13 3/8" Conductor set at 118'  
cemented to surface with 150 sks 'B'

Plug #4; 30' - surface  
20 sks 'B'

Bradford Canyon 1-10  
1690' FSL x 1850' FWL  
Section 10, T37S, R24E  
San Juan County, Utah  
AP# 43-037-30826  
Spud Date: 11/09/1982  
P&A Date: 11/25/1982  
Maximum Deviation: 1 3/4 deg

12 1/4" Hole

Note: Geologist report indicates that they had to  
ream the 8 5/8" casing to try to run a core barrel.  
They finally aborted coring due to the casing.  
Core barrel stopped at 2425'.

8 5/8", 24 ppf, J55, STC Surface Casing set at 2485'  
Cemented to surface with 1350 sks 65/35 POZ followed with  
150 sks 'B' neat

Plug #3; 50 sks 'B' from 2550' - 2400'

7 7/8" hole

Bradford Canyon 1-10  
Thirteen Point Surface Use Plan

1) Existing Roads

- a) The proposed route to the location is shown on the attached Topographical Map.
- b) The well pad is located approximately 25 miles South, Southeast of Blanding Utah.
- c) If necessary, an encroachment permit will be obtained from San Juan County, Utah for use of the existing county roads (CR #206 & CR #146). Approximately 17 miles of CR #206 and 4.5 miles of CR #146 will be used to access the well site.

2) Access Road

- a) CR #146 provides access to the well site.
- b) No cattle guards will be required.
- c) There are no existing roads outside the lease or unit boundary for which a BLM right-of-way is required .

b) Location of existing wells

See attached Topographical Map for the location of existing wells in the area of this proposed well site.

c) Location of Production Facilities

- a. In the event the well is brought to production, necessary production equipment will be determined and a diagram will be submitted showing the layout of such equipment on the location site.
- b. Off-site facilities: No off-site facilities are required.
- c. Pipelines: Pipeline design, construction, and permitting will be performed if needed after it is determined that the well is productive.

All permanent (in place for six months or longer) structures constructed or installed (including oil well pump jacks) will be painted a flat, nonreflective color to match the standard environmental colors, as determined by the Rocky Mountain Five-State Interagency Committee. All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded. Colors will be as follows: Juniper Green.

All site security guidelines identified in 43 CFR 3162.7-5 and Onshore Oil and Gas Order No. 3 shall be followed.

If a gas meter run is constructed it will be located on the lease within 500 feet of the well head. The gas flow line will be buried from the wellhead to the meter and will be buried downstream of the meter until it leaves the pad. Meter runs will be housed and /or fenced. The gas meter shall be calibrated prior to first sales and shall be calibrated quarterly thereafter. All gas production and measurement shall comply with the provisions of 43 CFR 3162.7-3, Onshore Oil and Gas Order No. 5, and American Gas Association (AGA) Report No. 3.

If a tank battery is constructed on this lease, it will be surrounded by a berm of sufficient capacity to contain 1 ½ times the storage capacity of the largest tank. All loading lines and valves will be placed inside the berm surrounding the tank battery. All oil production and measurement shall conform to the provisions of 43 CFR 3162.7-3, Onshore Oil and Gas Order No. 4.

Production facilities on location may include a lined or unlined production water pit as specified. If water is produced from the well an OOGO #7 application must be submitted.

d) Location and Type of Water Supply

All water needed for drilling and completion purposes will be obtained from the City of Blanding, Utah ( NW 1/4, Section 27, T36S, R22E.).

e) Source of Construction Material

It is not anticipated that additional construction materials will be required for construction of the well pad, pit, and access road for drilling operations. Gravel and rock for upgrading the access roads to Class III Standards will be obtained from a private source, if needed. If additional materials are required, they will be obtained from a private source. The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

f) Methods of Handling Waste Water Disposal

All garbage and trash materials will be contained in a trash cage and removed from the site for proper disposal as necessary, but no later than at the conclusion of drilling operations. Portable toilets will be provided and serviced appropriately.

The first 6 inches of top soil will be removed, stockpiled along the Northern edge of the well pad and reserved for reclamation. The drill pad is approximately 200' x 300'. The reserve pit will be reopened in the Southeast corner of the drill pad and will be approximately 150' x 75' x 10' with 3:1 slopes. Upon the reopening of the reserve pit, an inspection will be made to determine if adequate quantities of native bentonite are present in the pit to provide an effective seal. If it is determined more bentonite is needed in the reserve pit, it would then be lined with approximately 24 tons of bentonite and worked into all surfaces of the reserve pit with a bulldozer. The bentonite would be purchased from a commercial source. Three sides of the reserve pit will be fenced prior to drilling operations and the

fourth side of the pit will be fenced when drilling operations cease. The fence will be constructed using 32" woven wire topped with two smooth wire strands 4" and 16" above the woven wire. Steel T-posts will be set 16.5' apart and two stays will be used between the posts. Corner posts will be 6" or more and anchored with deadmen. The fence will be kept in repair while the pit dries. It is anticipated 4-7 days will be needed to re-establish the well pad, reserve pit.. No new surface disturbance is anticipated. The reserve pit is located in the cut, with 50% of the pit volume being below the original ground level. Wildlife protection, consisting of appropriate netting, will be used to cover the reserve pit.

g) Ancillary Facilities

N/A

h) Well Site Layout

All existing wells in the vicinity of this well pad are shown on the attached Topographical Map. Access to the well pad will be shown on the Topographical Map.

i) Plans for Restoration of the Surface

The top 6 inches of topsoil material will be removed from the location and stockpiled separately on the north side of the pad.

Immediately upon completion of drilling, all equipment that is not necessary for production will be removed.

Before any dirt work to restore the location takes place, the reserve pit must be completely dry..

All road surfaces will be removed prior to the rehabilitation of roads.

Reclaimed roads will have the berms and cuts reduced and will be closed to vehicle use.

All disturbed areas will be recontoured to replicate the natural slope.

The stockpiled topsoil will be evenly distributed over the disturbed area.

Prior to reseeding, all disturbed areas, including the access roads, will be scarified and left with a rough surface.

Seed will be broadcast or drilled between Oct. 1 and Feb. 28, or at a time specified by the BLM. If broadcast, a harrow or some other implement will be dragged over the seeded area to assure seed coverage.

The following seed mixture will be used: 3 Indian ricegrass, 2 4wing, 2 Gallefa grass, 2 Mexican cliffrose, 1 Sand dropseed.

In the event the well is abandoned an abandonment marker will be place below ground level. The marker will supply the operator name, lease number, well name and surveyed description ( township, range, section and either quarter-quarter or footages).

11) Surface and Mineral Ownership

Both the surface and the minerals are owned by the BLM.

12) Other Information

a) Archaeological Concerns: See archaeological report

The operator is responsible for informing all persons in the area who are associated with this project that they will be prosecuted for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator is to immediately stop work that might further disturb such materials, and will contact the authorized officer (AO). Within five (5) working days, the AO will inform the operator as to:

- whether the materials appear eligible for the National Register of Historic Places;
- the mitigation measures the operator will likely have to undertake before the site can be used (assuming in situ preservation is not necessary); and
- a time frame for the AO to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that the mitigation is appropriate.
- If the operator wishes, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide the technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that the required mitigation has been completed, the operator will be allowed to resume construction.

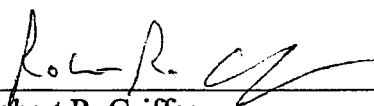
b) Threatened and Endangered Species Concerns: No known concerns.

c) Wildlife Seasonal Restrictions (yes/no): Deer Winter Range December 15 – April 30.

d) Off Location Geophysical Testing: N/A

e) Drainage crossing that require additional State or Federal approval: N/A

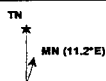
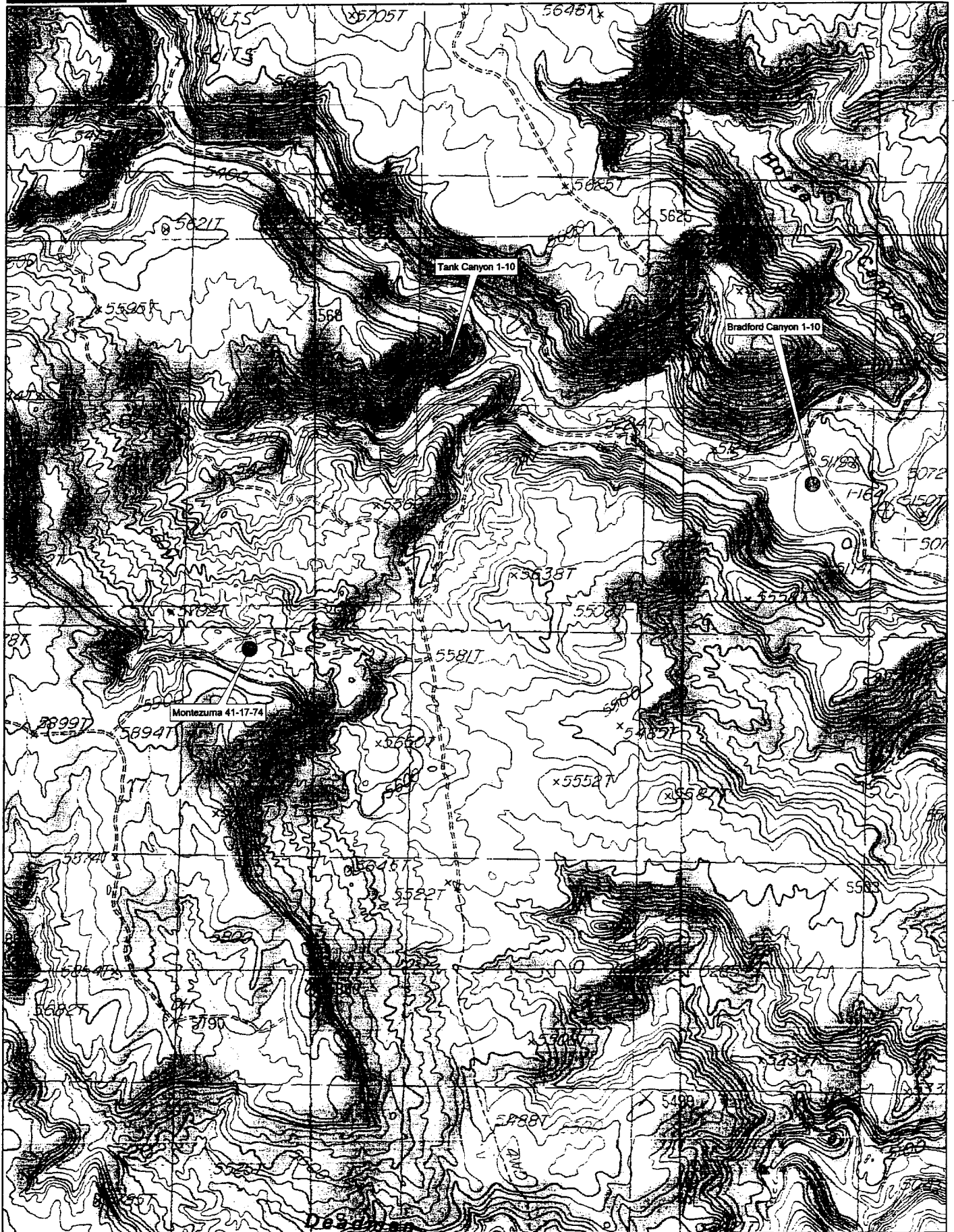
f) Other: Anticipated spud date, September 15, 2006.



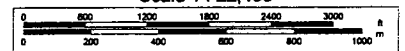
---

Robert R. Griffie  
Operations Engineer  
June 15, 2006





Scale 1 : 22,400



1" = 1,866.7 ft Data Zoom 13-2

Marie McGann  
BLM Moab Field Office  
82 East Dogwood  
Moab, Utah 84532

RECEIVED  
BLM FIELD OFFICE

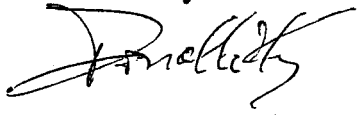
2006 JUL 19 P 12:25

7707 TUE 11:00 AM  
7/19/06

Dear Marie:

I have enclosed copies of the Contact List for the three CrownQuest APD's. Sorry those got left out of the process. You will also find the Tank Canyon 1-9 Access Road Plat. That had not been completed when I brought the APD to you. Midland is taking care of the Bond issue. Let me know if something else needs attention.

Sincerely'



Donal Key

Date: 7-10-06

## CONTACT LIST

### Tank Canyon Projects

CrownQuest Operating , LLC  
303 West Wall, Suite 1400  
P.O. Box 2990  
Midland, Texas 79702  
Tommy Lent, PE, Vice President-Operations & Engineering  
432-687-3116  
Fax: 432-687-4804

Roddy Production Company, Inc  
P.O. Box 2221 \* 2600 Farmington Ave.  
Farmington, NM 87499  
Robert R. Griffee, PE, Operations Manager & CQ Agent  
505-326-6813  
Fax: 505-326-6814  
Donal Key, Land, Permitting & Locations  
505-716-2543  
Fax: 505-326-6814

Basin Surveying, Inc  
P.O. Box 6456  
Farmington, NM 87499  
108 Llano, Aztec NM 87410  
John D. Wayne, P.L.S.  
505-334-1500  
Fax: 505-334-1498

**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 03/07/2007

(Re-entry)

API NO. ASSIGNED: 43-037-30826

WELL NAME: BRADFORD CYN 1-10

OPERATOR: CROWNQUEST OPERATING, ( N2685 )

CONTACT: ROBERT GRIFFEE

PHONE NUMBER: 432-685-3116

PROPOSED LOCATION:

NESW 10 370S 240E

SURFACE: 1690 FSL 1850 FWL

BOTTOM: 1690 FSL 1850 FWL

COUNTY: SAN JUAN

LATITUDE: 37.58225 LONGITUDE: -109.2702

UTM SURF EASTINGS: 652738 NORTHINGS: 4160668

FIELD NAME: UNDESIGNATED ( 2 )

INSPECT LOCATN BY: / /

**Tech Review**

**Initials**

**Date**

Engineering

Geology

Surface

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU 84683

SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: DSCR

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

☒ Plat

☒ Bond: Fed[] Ind[] Sta[] Fee[]  
(No. UTB000218 )

☒ Potash (Y/N)

☒ Oil Shale 190-5 (B) or 190-3 or 190-13

☒ Water Permit  
(No. MUNICIPAL )

☒ RDCC Review (Y/N)  
(Date: )

☒ Fee Surf Agreement (Y/N)

☒ Intent to Commingle (Y/N)

LOCATION AND SITING:

\_\_\_ R649-2-3.

Unit: \_\_\_\_\_

\_\_\_ R649-3-2. General

Siting: 460 From Qtr/Qtr & 920' Between Wells

☒ R649-3-3. Exception

\_\_\_ Drilling Unit

Board Cause No: \_\_\_\_\_

Eff Date: \_\_\_\_\_

Siting: \_\_\_\_\_

\_\_\_ R649-3-11. Directional Drill

COMMENTS: \_\_\_\_\_

STIPULATIONS: \_\_\_\_\_

1- Fed Permit  
2- Spacing Strip

T37S R24E

10

BRADFORD CYN I-10  
BRADFORD CYN I-10

## BRADFORD CANYON FIELD

OPERATOR: CROWNQUEST OPER (N2685)

SEC: 10 T.37S R. 24E

FIELD: UNDESIGNATED (002)












COUNTY: SAN JUAN

SPACING: R649-3-3 / EXCEPTION LOCATION
















### Field Status

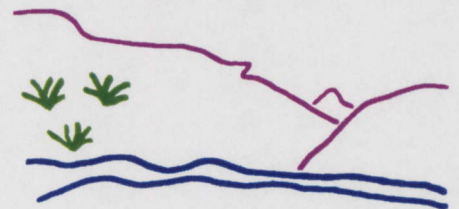
-  ABANDONED
-  ACTIVE
-  COMBINED
-  INACTIVE
-  PROPOSED
-  STORAGE
-  TERMINATED

### Unit Status

-  EXPLORATORY
-  GAS STORAGE
-  NF PP OIL
-  NF SECONDARY
-  PENDING
-  PI OIL
-  PP GAS
-  PP GEOTHERML
-  PP OIL
-  SECONDARY
-  TERMINATED

### Wells Status

-  GAS INJECTION
-  GAS STORAGE
-  LOCATION ABANDONED
-  NEW LOCATION
-  PLUGGED & ABANDONED
-  PRODUCING GAS
-  PRODUCING OIL
-  SHUT-IN GAS
-  SHUT-IN OIL
-  TEMP. ABANDONED
-  TEST WELL
-  WATER INJECTION
-  WATER SUPPLY
-  WATER DISPOSAL
-  DRILLING



Utah Oil Gas and Mining



PREPARED BY: DIANA MASON  
DATE: 12-MARCH-2007

CONFIDENTIAL

Form 3160-5  
(June 1990)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

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Use "APPLICATION FOR PERMIT..." for such proposals

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

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UTU 84683

6. If Indian, Allottee or Tribe Name  
N/A

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Bradford Canyon 1-10

9. API Well No.

43-037-30826

10. Field and Pool, or Exploratory Area  
Pennsylvanian

11. County or Parish, State  
San Juan County, Utah

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☐ Oil ☒ Gas ☐ Other

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CrownQuest Operating, LLC

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TYPE OF SUBMISSION

TYPE OF ACTION

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☒ Subsequent Report

☐ Final Abandonment Notice

☐ Abandonment

☐ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☒ Other re-entry operations

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut-Off

☐ Conversion to Injection

☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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CrownQuest Operating, LLC is performing re-entry operations on the above referenced well. A summary report of these operations is attached covering operations performed from 3/28/07 through 4/20/07.

RECEIVED

MAY 31 2007

DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed Robert R. Griffie  
Robert R. Griffie

Title Operations Manager  
Agent for CrownQuest

Date: 5/15/07

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side

**CONFIDENTIAL**

CrownQuest Operating, LLC  
Bradford Canyon 1-10  
Re-Entry Report Summary

3/28/07  
MIRU HWS Rig 12.

3/29/07  
RU. NU BOPE.

3/30/07  
NU BOPE, pressure test. PU bit, bit sub and 4 3/4" dc.

4/2/07  
PU 3.5 power swivel. Drill out cement to 65'. Clean out 8 5/8" surface casing to 540'.

4/3/07  
Clean out 8 5/8" surface casing to 1204'

4/4/07  
Clean out 8 5/8" surface casing to 2196'.

4/5/07  
Clean out 8 5/8" surface casing to 2465'. Clean out 7 7/8" hole to 2537'. Mix mud.

4/6/07  
Mix mud.

4/9/07  
Clean out 7 7/8" hole to 3658'. Circulate and condition hole, mix mud.

4/10/07  
Clean out 7 7/8" hole to 4665'. Mix mud.

4/11/07  
Clean out 7 7/8" hole to TD at 5517'. Circulate and condition.

4/12/07  
TOH to 8 5/8" casing. TIH, no fill. Circulate and condition.

4/13/07  
TOOH. RU Schlumberger. Ran High Resolution Laterlog Array, Natural Spectroscopy GR, Litho-Density Neutron logs.

4/14/07  
Run Schlumberger Side wall coring tool. Cut and retrieve side wall cores. RD Schlumberger.

4/16/07  
TIH to TD. Circulate and condition hole.

4/17/07  
TOH, LD drill pipe.

# CONFIDENTIAL

4/18/07

Run 5 ½", 17 ppf, P110, LTC casing as follows: Float shoe, 2 joints, float collar, 142 joints casing. Run centralizers on shoe and every other collar to 4012', then every 5 collars to 3027', and one centralizer at 2102'. Install cable wipers every joint from 5439' – 4320'. Land casing at 5515'. Clean out 24' of fill. Circulate at TD overnight.

4/19/07

RU Schlumberger. Cement as follows: 5 bbls water, 35 bbls chemical wash, 596 sks (184 bbls) 25/75 poz TXI blend (11.8 ppg, 1.74 cf/sk, 9.57 gals/sk) followed by 303 sks (87 bbls) LiteCrete w/ gas-block (12.5 ppg, 1.61 cf/sk, 6.27 gals/sk). Circulate 9.5 bbls slurry to surface. Set slips. ND BOP, NU well head.

4/20/07

WOC.



**CONFIDENTIAL**

Form 3160-5  
(June 1990)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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1. Type of Well

☐ Oil ☒ Gas ☐ Other

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CrownQuest Operating, LLC

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303 Veteran's Airpark Lane, Suite 5100, Midland TX 79705 (432) 818-0300

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Surface location: 1690' FSL x 1850' FWL, Section 10, T37S, R24E

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

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UTU 84683

6. If Indian, Allottee or Tribe Name  
N/A

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Bradford Canyon 1-10

9. API Well No.

43-037-30826

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11. County or Parish, State  
San Juan County, Utah

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**RECEIVED**

**MAY 31 2007**

DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed Robert R. Griffie  
Robert R. Griffie

Title Operations Manager  
Agent for CrownQuest

Date: 5/22/07

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**\*See Instruction on Reverse Side**

# CONFIDENTIAL

5/8/07

RU Blue Jet. Run composite bridge plug, could not work below 1894'. RD wireline. PU mill. Clean out paraffin plug, TIH to 5384'. TOH. RU Blue Jet. Run gage ring to 5350'. Set composite bridge plug at 5350'. Perforate 5280' – 5290' w/ 4 jspf. Pressure test to 4500 psi. RU Stinger and Superior WS. Acidize perforation interval w/ 5000 gals 20% HCL. Flow back overnight.

5/9/07

RD Stinger. RU Blue Jet. Set composite bridge plug at 5230'. Pressure test to 5000 psi. Perforate 5102' – 5102', 5064' – 5054', 5004' – 4990', 4958' – 4954', 4947' – 4938', and 4912' – 4909' w/ 2 jspf. RU Superior WS. Frac perforation interval with 3500 gals 20% HCL, 3750 gals 20% N2 foam HCL, and 130,603 lbs 20/40 sand in 63Q N2 foam. RD frac equipment. Flow back on 1/4" choke. Recover N2 and frac fluid.

5/10/07

Flow back on 3/8" choke. Recovering 4' flare, N2, and frac fluid.

5/11/07

RD Stinger. TIH with saw-tooth collar, SN one joint up, and 2 7/8" tubing. Tag fill at 5102'. Flow back overnight.

5/12/07

Clean out sand fill. RU and swab 7 runs. Flow back well. Shut in for pressure build up.

5/13/07

SI.

5/14/07

Load casing w/ 3% KCL. TOH. RU Blue Jet. Set composite bridge plug at 4890'. Pressure test to 5000 psi. Perforate 4828' – 4838', 4822' – 4824', and 4812' – 4820' w/ 4 jspf. RU Stinger and Superior WS. Acidize perforation intervals with 9500 gals 20% HCL in N2 foam. RD frac equipment. Flow back on 1/4" choke. Recover N2 and spent acid.

5/15/07

RU Blue Jet. Set composite bridge plug at 4150'. Pressure test to 5000 psi. Perforate 4026' – 4052' w/ 4 jspf. RU Stinger and Superior WS. Frac w/ 1000 gals 20% HCL and 19,309 lbs 20/40 sand in 70Q N2 foam. Flow back on 1/4" choke.

5/16/07

RD Stinger isolation tool. TIH with saw-tooth collar, 1 jt, SN, and 2 7/8" tubing. Clean out sand from 3831' – 4081'. POOH to 3819'. Swab 4 runs.

5/17/07

Swab total of 73 bbls load water. Gas TSTM.

5/18/07

TOH. TIH with 4 3/4" mill, bit sub, 1 jt, SN, and 2 7/8" tubing. Mill out bridge plug at 4150'. Clean out to 4890'. TOOH to 4000'. SD for week-end.

# CONFIDENTIAL

CrownQuest Operating, LLC  
Bradford Canyon 1-10  
Re-Entry Report Summary

4/23/07

HWS Rig 12. NU BOPE

4/24/07

PU 4 3/5" bit, but sub, and 2 7/8" N80 tbg. TIH and tag at 5348'.

4/25/07

Clean out to PBTD at 5500'. Circulate wellbore clean. Load casing with 3 % KCL. TOH LD tubing.

4/26/07

Re-set BOPE. Pressure test BOPE to 5000 psi. RU Blue Jet. Ran CBL PBTD to surface. Perforate 5432' – 5482' w/ 4 jsf. RD Blue Jet. RU Superior WS.

4/27/07

Frac perforation interval w/ 102,200 lbs 20/40 sand in 65Q N2 foam. Flow back well on 1/4" choke.

4/28/07

Flow back well. Recovering gas (5' flare), N2, and frac fluid.

4/29/07

Flow back well. Recovering gas, 5' flare. Shut well in.

4/30/07

RD Superior. PU tubing. TIH w/ 40 jts.

5/1/07

Continue PU tubing and RIH. Tag fill at 5430'. Prepare to move HWS Rig 12 to Montezuma 41-17-74. SI well.

5/2/07

Unable to move rig due to weather. Raise derrick. TOOH w/ tbg. TIH w/ saw-tooth collar and SN one joint from bottom to 5365'. RU lines. Flow back well. Recovering 5' gas flare, 0 FTP on 2" line, no fluid.

5/3/07

Swab well. Made 15 runs, recovering 101 bbls load water. Flow back well overnight.

5/4/07

Rig down and move HWS rig 12 to Montezuma 41-17-74. MIRU HWS rig 10. RU and swab. Made 5 runs. Recover 21 bbls fluid, 20% oil, some gas.

5/5/07

Made 2 swab runs, well kicked off then logged off.

5/6/07

Flow back on 2" line. 2' gas flare, FTP 0. No fluid.

5/7/07

TIH, clean out 6' fill. TOH.

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UNITED STATES  
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FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

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14. I hereby certify that the foregoing is true and correct

Signed Robert R. Griffie  
Robert R. Griffie

Title Operations Manager

Date: 7/6/07

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
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**RECEIVED**

**JUL 2 5 2007**

**DIV. OF OIL, GAS & MINING**

CrownQuest Operating, LLC  
Bradford Canyon 1-10  
Re-Entry Report Summary

**CONFIDENTIAL**

5/21/07

Mill out composite bridge plug at 4890'. Clean out to 5157'. POOH to 3988'. Flow back overnight.

5/22/07

Clean out sand and composite bridge plug remnants to 5260'.

5/23/07

Mill out composite bridge plug at 5260'. Clean out to 5350'. Mill out composite bridge plug at 5350'.

5/24/07

TOH. PU sawtooth collar, 1 jt, SN, and TIH. Clean out 2' fill. Pull up and flow back well, load water with some gas.

5/25/07

Flow back well, load water and some gas.

5/26/07

Ran tracer log. Flow back well, load water and some gas.

5/27/07

Flow back well, load water and some gas.

5/28/07

Flow back well, load water and some gas.

5/29/07

TIH. Clean out fill (6'). Swab well.

5/30/07

Swab. Recover load water, some oil, some gas.

5/31/07

Swab. Recover load water, some gas.

6/1/07

Swab, Recover load water. Flow back. SI to build up casing pressure.

6/2/07

Flow back well, surging fluid and some gas.

6/3/07

Flow back well, surging fluid and some gas.

6/4/07

Flow back well, surging fluid and some gas.

6/5/07

Flow back well, surging fluid and some gas.

**CONFIDENTIAL**

6/6/07

Flow back well, flowing small amt of gas, rate TSTM.

6/7/07

Swab. Recover load water and some gas.

6/8/07

Swab. Recover load water and some gas.

6/9/07

Flow back. Rate TSTM.

6/10/07

Flow back. Rate TSTM, surging.

6/11/07

TOH. PU RBP and pkr. Set RBP at 4090', pkr 4010'. Swab perf interval 4026' – 4052'. Swabbed 2.5 bbls, black emulsion.

6/12/07

Release pkr and plug. TOH. PU mill. TIH to clean out.

6/13/07

TOH, lay down work string.

6/14/07

PU 1 jt 2 7/8" tubing, 4' perf sub, SN, 2 jts tbg, tubing anchor, and 165 jts 2 7/8" EUE tubing. Land tubing at 5452', SN at 5412'.

6/15/07

Attempt to set anchor, would not set. TOH. Springs broken on anchor.

6/16/07

Replance anchor. TIH with same assy, land tubing at 5452' and SN at 5412'.

6/17/07

Release Hurricane rig 12 to yard. W.O. Pumping unit.

**CONFIDENTIAL**

UNITED STATES  
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☒ Subsequent Report

☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment

☐ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☒ Other re-entry operations

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut-Off

☐ Conversion to Injection

☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depth for all markers and zones pertinent to this work.)\*

CrownQuest Operating, LLC is performing re-entry operations on the above referenced well. A summary report of these operations is attached covering operations performed from 6/27/07 through 7/7/07.

14. I hereby certify that the foregoing is true and correct

Signed Robert R. Griffie  
Robert R. Griffie

Title Operations Manager

Date: 7/18/07

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side

**RECEIVED**

**JUL 25 2007**

**DIV. OF OIL, GAS & MINING**

CrownQuest Operating, LLC  
Bradford Canyon 1-10  
Re-Entry Report Summary

**CONFIDENTIAL**

6/27/07

MIRU HWS rig 12. Ran 1 ½" rod pump, 4 1 ½" sinker bars, ¾" rods.

6/28/07

Continue running ¾" rods, then 7/8" rods. Rig up to pump jack. Would not pump.

6/29/07

Attempt to pump. Pump gas locked. TOH with rods and pump.

7/3/07

Release tubing anchor. TOH with tubing.

7/5/07

PU saw tooth collar, 20' pump joints, perforated sub, SN, 2 jts 2 7/8" tubing, tubing anchor and TIH with 2 7/8" tubing (167 jts total). Land tubing at 5464', set anchor at 5378'. Ran 1 ½" x 16' rod pump, 100' 1 ½" sinker bars, 132 ¾" rods, and 80 7/8" rods. Seat and test pump.

7/6/07

Start pump jack and test separator. Pump well.

7/7/07

Release HWS rig 12 to yard.



CONFIDENTIAL

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

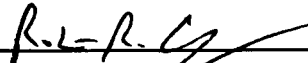
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 84683
2. NAME OF OPERATOR: CrownQuest Operating, LLC.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: P.O. Box 2221 CITY Farmington STATE NM ZIP 87401		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1690' FSL x 1850' FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SNSW 10 37S 24E		8. WELL NAME and NUMBER: Bradford Canyon 1-10
PHONE NUMBER: (505) 327-5750		9. API NUMBER: 4303730826
COUNTY: San Juan		10. FIELD AND POOL, OR WILDCAT: Wildcat
STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 7/7/2007	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: Re-entry and Completion
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Roddy Production Company, Inc. has performed re-entry operations and completed the above referenced well. The operations report summaries are attached. Current status is waiting on pipeline hook-up.

NAME (PLEASE PRINT) Robert R. Griffie	TITLE Operations Manager
SIGNATURE 	DATE 8/2/2007

(This space for State use only)

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CrownQuest Operating, LLC  
Bradford Canyon 1-10  
Re-Entry Report Summary

6/27/07

MIRU HWS rig 12. Ran 1 ½" rod pump, 4 1 ½" sinker bars, 3/4" rods.

6/28/07

Continue running ¾" rods, then 7/8" rods. Rig up to pump jack. Would not pump.

6/29/07

Attempt to pump. Pump gas locked. TOH with rods and pump.

7/3/07

Release tubing anchor. TOH with tubing.

7/5/07

PU saw tooth collar, 20' pump joints, perforated sub, SN, 2 jts 2 7/8" tubing, tubing anchor and TIH with 2 7/8" tubing (167 jts total). Land tubing at 5464', set anchor at 5378'. Ran 1 ½" x 16' rod pump, 100' 1 ½" sinker bars, 132 ¾" rods, and 80 7/8" rods. Seat and test pump.

7/6/07

Start pump jack and test separator. Pump well.

7/7/07

Release HWS rig 12 to yard.

**CONFIDENTIAL**

6/6/07

Flow back well, flowing small amt of gas, rate TSTM.

6/7/07

Swab. Recover load water and some gas.

6/8/07

Swab. Recover load water and some gas.

6/9/07

Flow back. Rate TSTM.

6/10/07

Flow back. Rate TSTM, surging.

6/11/07

TOH. PU RBP and pkr. Set RBP at 4090', pkr 4010'. Swab perf interval 4026' – 4052'.  
Swabbed 2.5 bbls, black emulsion.

6/12/07

Release pkr and plug. TOH. PU mill. TIH to clean out.

6/13/07

TOH, lay down work string.

6/14/07

PU 1 jt 2 7/8" tubing, 4' perf sub, SN, 2 jts tbg, tubing anchor, and 165 jts 2 7/8" EUE tubing.  
Land tubing at 5452', SN at 5412'.

6/15/07

Attempt to set anchor, would not set. TOH. Springs broken on anchor.

6/16/07

Replance anchor. TIH with same assy, land tubing at 5452' and SN at 5412'.

6/17/07

Release Hurricane rig 12 to yard. W.O. Pumping unit.

CrownQuest Operating, LLC  
Bradford Canyon 1-10  
Re-Entry Report Summary

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**5/21/07**

Mill out composite bridge plug at 4890'. Clean out to 5157'. POOH to 3988'. Flow back overnight.

**5/22/07**

Clean out sand and composite bridge plug remnants to 5260'.

**5/23/07**

Mill out composite bridge plug at 5260'. Clean out to 5350'. Mill out composite bridge plug at 5350'.

**5/24/07**

TOH. PU sawtooth collar, 1 jt, SN, and TIH. Clean out 2' fill. Pull up and flow back well, load water with some gas.

**5/25/07**

Flow back well, load water and some gas.

**5/26/07**

Ran tracer log. Flow back well, load water and some gas.

**5/27/07**

Flow back well, load water and some gas.

**5/28/07**

Flow back well, load water and some gas.

**5/29/07**

TIH. Clean out fill (6'). Swab well.

**5/30/07**

Swab. Recover load water, some oil, some gas.

**5/31/07**

Swab. Recover load water, some gas.

**6/1/07**

Swab, Recover load water. Flow back. SI to build up casing pressure.

**6/2/07**

Flow back well, surging fluid and some gas.

**6/3/07**

Flow back well, surging fluid and some gas.

**6/4/07**

Flow back well, surging fluid and some gas.

**6/5/07**

Flow back well, surging fluid and some gas.

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5/8/07

RU Blue Jet. Run composite bridge plug, could not work below 1894'. RD wireline. PU mill. Clean out paraffin plug, TIH to 5384'. TOH. RU Blue Jet. Run gage ring to 5350'. Set composite bridge plug at 5350'. Perforate 5280' – 5290' w/ 4 jspf. Pressure test to 4500 psi. RU Stinger and Superior WS. Acidize perforation interval w/ 5000 gals 20% HCL. Flow back overnight.

5/9/07

RD Stinger. RU Blue Jet. Set composite bridge plug at 5230'. Pressure test to 5000 psi. Perforate 5102' – 5102', 5064' – 5054', 5004' – 4990', 4958' – 4954', 4947' – 4938', and 4912' – 4909' w/ 2 jspf. RU Superior WS. Frac perforation interval with 3500 gals 20% HCL, 3750 gals 20% N2 foam HCL, and 130,603 lbs 20/40 sand in 63Q N2 foam. RD frac equipment. Flow back on 1/4" choke. Recover N2 and frac fluid.

5/10/07

Flow back on 3/8" choke. Recovering 4' flare, N2, and frac fluid.

5/11/07

RD Stinger. TIH with saw-tooth collar, SN one joint up, and 2 7/8" tubing. Tag fill at 5102'. Flow back overnight.

5/12/07

Clean out sand fill. RU and swab 7 runs. Flow back well. Shut in for pressure build up.

5/13/07

SI.

5/14/07

Load casing w/ 3% KCL. TOH. RU Blue Jet. Set composite bridge plug at 4890'. Pressure test to 5000 psi. Perforate 4828' – 4838', 4822' – 4824', and 4812' – 4820' w/ 4 jspf. RU Stinger and Superior WS. Acidize perforation intervals with 9500 gals 20% HCL in N2 foam. RD frac equipment. Flow back on 1/4" choke. Recover N2 and spent acid.

5/15/07

RU Blue Jet. Set composite bridge plug at 4150'. Pressure test to 5000 psi. Perforate 4026' – 4052' w/ 4 jspf. RU Stinger and Superior WS. Frac w/ 1000 gals 20% HCL and 19,309 lbs 20/40 sand in 70Q N2 foam. Flow back on 1/4" choke.

5/16/07

RD Stinger isolation tool. TIH with saw-tooth collar, 1 jt, SN, and 2 7/8" tubing. Clean out sand from 3831' – 4081'. POOH to 3819'. Swab 4 runs.

5/17/07

Swab total of 73 bbls load water. Gas TSTM.

5/18/07

TOH. TIH with 4 3/4" mill, bit sub, 1 jt, SN, and 2 7/8" tubing. Mill out bridge plug at 4150'. Clean out to 4890'. TOOH to 4000'. SD for week-end.

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CrownQuest Operating, LLC  
Bradford Canyon 1-10  
Re-Entry Report Summary

4/23/07  
HWS Rig 12. NU BOPE

4/24/07  
PU 4 3/5" bit, but sub, and 2 7/8" N80 tbg. TIH and tag at 5348'.

4/25/07  
Clean out to PBTD at 5500'. Circulate wellbore clean. Load casing with 3 % KCL. TOH LD tubing.

4/26/07  
Re-set BOPE. Pressure test BOPE to 5000 psi. RU Blue Jet. Ran CBL PBTD to surface. Perforate 5432' – 5482' w/ 4 jspf. RD Blue Jet. RU Superior WS.

4/27/07  
Frac perforation interval w/ 102,200 lbs 20/40 sand in 65Q N2 foam. Flow back well on 1/4" choke.

4/28/07  
Flow back well. Recovering gas (5' flare), N2, and frac fluid.

4/29/07  
Flow back well. Recovering gas, 5' flare. Shut well in.

4/30/07  
RD Superior. PU tubing. TIH w/ 40 jts.

5/1/07  
Continue PU tubing and RIH. Tag fill at 5430'. Prepare to move HWS Rig 12 to Montezuma 41-17-74. SI well.

5/2/07  
Unable to move rig due to weather. Raise derrick. TOOH w/ tbg. TIH w/ saw-tooth collar and SN one joint from bottom to 5365'. RU lines. Flow back well. Recovering 5' gas flare, 0 FTP on 2" line, no fluid.

5/3/07  
Swab well. Made 15 runs, recovering 101 bbls load water. Flow back well overnight.

5/4/07  
Rig down and move HWS rig 12 to Montezuma 41-17-74. MIRU HWS rig 10. RU and swab. Made 5 runs. Recover 21 bbls fluid, 20% oil, some gas.

5/5/07  
Made 2 swab runs, well kicked off then logged off.

5/6/07  
Flow back on 2" line. 2' gas flare, FTP 0. No fluid.

5/7/07  
TIH, clean out 6' fill. TOH.

**CONFIDENTIAL**

**4/18/07**

Run 5 ½", 17 ppf, P110, LTC casing as follows: Float shoe, 2 joints, float collar, 142 joints casing. Run centralizers on shoe and every other collar to 4012', then every 5 collars to 3027', and one centralizer at 2102'. Install cable wipers every joint from 5439' – 4320'. Land casing at 5515'. Clean out 24' of fill. Circulate at TD overnight.

**4/19/07**

RU Schlumberger. Cement as follows: 5 bbls water, 35 bbls chemical wash, 596 sks (184 bbls) 25/75 poz TXI blend (11.8 ppg, 1.74 cf/sk, 9.57 gals/sk) followed by 303 sks (87 bbls) LiteCrete w/ gas-block (12.5 ppg, 1.61 cf/sk, 6.27 gals/sk). Circulate 9.5 bbls slurry to surface. Set slips. ND BOP, NU well head.

**4/20/07**

WOC.

**CONFIDENTIAL**

CrownQuest Operating, LLC  
Bradford Canyon 1-10  
Re-Entry Report Summary

3/28/07  
MIRU HWS Rig 12.

3/29/07  
RU. NU BOPE.

3/30/07  
NU BOPE, pressure test. PU bit, bit sub and 4 3/4" dc.

4/2/07  
PU 3.5 power swivel. Drill out cement to 65'. Clean out 8 5/8" surface casing to 540'.

4/3/07  
Clean out 8 5/8" surface casing to 1204'

4/4/07  
Clean out 8 5/8" surface casing to 2196'.

4/5/07  
Clean out 8 5/8" surface casing to 2465'. Clean out 7 7/8" hole to 2537'. Mix mud.

4/6/07  
Mix mud.

4/9/07  
Clean out 7 7/8" hole to 3658'. Circulate and condition hole, mix mud.

4/10/07  
Clean out 7 7/8" hole to 4665'. Mix mud.

4/11/07  
Clean out 7 7/8" hole to TD at 5517'. Circulate and condition.

4/12/07  
TOH to 8 5/8" casing. TIH, no fill. Circulate and condition.

4/13/07  
TOOH. RU Schlumberger. Ran High Resolution Laterlog Array, Natural Spectropy GR, Litho-Density Neutron logs.

4/14/07  
Run Schlumberger Side wall coring tool. Cut and retrieve side wall cores. RD Schlumberger.

4/16/07  
TIH to TD. Circulate and condition hole.

4/17/07  
TOH, LD drill pipe.



**CONFIDENTIAL**STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MININGAMENDED REPORT ☐ FORM 8  
(highlight changes)5. LEASE DESIGNATION AND SERIAL NUMBER:  
UTU 84683

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME

8. WELL NAME and NUMBER:

Bradford Canyon 1-10

9. API NUMBER:

4303730826

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. QTR/OTR, SECTION, TOWNSHIP, RANGE,  
MERIDIAN:

NESW 10 37S 24E

12. COUNTY

San Juan

13. STATE

UTAH

1a. TYPE OF WELL:

OIL  
WELL ☐GAS  
WELL ☒DRY ☐

OTHER

b. TYPE OF WORK:

NEW  
WELL ☐HORIZ.  
LATS. ☐DEEP-  
EN ☐RE-  
ENTRY ☒DIFF.  
RESVR. ☐

OTHER

2. NAME OF OPERATOR:

CrownQuest Operating, LLC

3. ADDRESS OF OPERATOR:

PO Box 2221

CITY Farmington

STATE NM

ZIP 87499

PHONE NUMBER:

(505) 325-5750

4. LOCATION OF WELL (FOOTAGES)

AT SURFACE: 1690' FSL x 1850' FWL

AT TOP PRODUCING INTERVAL REPORTED BELOW: Same as surface

AT TOTAL DEPTH: Same as Surface

14. DATE SPUDDED:

4/2/2007

15. DATE T.D. REACHED:

4/11/2007

16. DATE COMPLETED:

7/6/2007

ABANDONED ☐READY TO PRODUCE ☒

17. ELEVATIONS (DF, RKB, RT, GL):

5120' GL

18. TOTAL DEPTH: MD

5,517

TVD 5,517

19. PLUG BACK T.D.: MD

5,500

TVD 5,500

20. IF MULTIPLE COMPLETIONS, HOW MANY? \*

21. DEPTH BRIDGE MD  
PLUG SET: TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)

GR/ Neutron/ Density/ Caliper

23.

WAS WELL CORED?

NO ☐YES ☐

(Submit analysis)

WAS DST RUN?

NO ☒YES ☐

(Submit report)

DIRECTIONAL SURVEY?

NO ☒YES ☐

(Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
17-1/2	13-3/8 H-40	48	0	118		CI B 150		Circ	
12-1/4	8-5/8 J-55	24	0	2,465		CI B 1,500		Circ	
7-7/8	5-1/2 P110	17	0	5,515		Misc 899		Circ	

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8	5,464							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) Pennsylvanian	4,026	5,482			4,026 5,482	0.48	748	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
4026-5482'	20,100 gal acid & 241,300 lbs 20/40 sand w/ N2 foam

29. ENCLOSED ATTACHMENTS:



ELECTRICAL/MECHANICAL LOGS



GEOLOGIC REPORT



DST REPORT



DIRECTIONAL SURVEY



SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION



CORE ANALYSIS



OTHER:

30. WELL STATUS:

Producing

(5/2000)

(CONTINUED ON BACK)

RECEIVED

OCT 01 2007

DIV. OF OIL, GAS &amp; MINING

# CONFIDENTIAL

## 31. INITIAL PRODUCTION

### INTERVAL A (As shown in Item #26)

DATE FIRST PRODUCED: 7/6/2007	TEST DATE: 8/11/2007	HOURS TESTED: 24	TEST PRODUCTION RATES: →	OIL - BBL: 10	GAS - MCF: 88	WATER - BBL: 49	PROD. METHOD: Pumping
CHOKE SIZE:	TBG. PRESS. 120	CSG. PRESS. 120	API GRAVITY	BTU - GAS	GAS/OIL RATIO 9	24 HR PRODUCTION RATES: →	INTERVAL STATUS: Producing

### INTERVAL B (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

### INTERVAL C (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

### INTERVAL D (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

## 32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

Venting (flaring) while testing

## 33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
Ismay	5,166	5,420	Oil, gas, & brine water	Shinarump	2,080
Desert Creek	5,420	5,490	Oil, gas, & brine water	Moenkopi	2,164
				Cutler	2,270
				Honaker Trails	4,066
				Ismay	5,166
				Desert Creek	5,420
				Chimney Rock	5,490

## 35. ADDITIONAL REMARKS (Include plugging procedure)

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) Robert R Griffiee

TITLE Operations Manager

SIGNATURE



DATE 9/27/2007

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

\* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

\*\* ITEM 24: Cement Top -- Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
Box 145801  
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

# CROWNQUEST

CROWNQUEST OPERATING, LLC

RECEIVED  
OCT 15 2007  
DIV. OF OIL, GAS & MINING

Date: 10/11/07

Division of Oil, Gas and Mining  
1594 W. N. Temple, STE 1210, Box 145801  
Salt Lake City, Utah 84114-5801

To Whom It May Concern:

In reference to the State Oil and Gas Conservation Rule R649-3-2, CrownQuest Operating, LLC requests an exception for the Bradford #1-10 ( API # 43-037-30826). The location of this well is 1690' FSL x 1850' FWL, Section 10, 37S, R24E, San Juan County, Utah. We request the spacing exception due to the fact we are re-entering an existing plugged and abandoned well that was drilled at the above described location. CrownQuest Operating is the only oil and gas mineral owner within a 460' radius of this well location..

If you need additional information, please contact Donal Key at (505) 716-2543 or e-mail at [donalkey@msn.com](mailto:donalkey@msn.com).

Sincerely,



Donal Key  
Surface Operations  
CrownQuest Operating, LLC



UTAH DEPARTMENT OF NATURAL RESOURCES

Division of Oil, Gas & Mining

Oil and Gas Program

1594 West North Temple, Suite 1210, Box 145801

Salt Lake City, Utah 84114-5801

(801) 538-5340 Phone

(801) 359-3940 Fax

Resolved 10/15/07

NOTICE OF VIOLATION  
STATE OF UTAH  
OIL AND GAS CONSERVATION ACT

\*\*\*\*\*

To the following operator:

Name: Crownquest Operating, LLC  
Well or Site: Bradford Canyon 1-10 API #: 43-037 -30826  
Location: Township 37S, Range 24E, Section 10, County SAN JUAN  
Date and time of inspection: Action: 10/4/07  
Mailing Address: P.O. Box 2221  
FARMINGTON, New Mexico 87499

Under the authority of the Utah Oil and Gas Conservation Act, Section 40-6 et. Seq., Utah Code Annotated, 1953, as amended, the undersigned authorized representative of the Division of Oil, Gas and Mining has conducted an inspection of the above described site and/or records on the above date and has found alleged violation(s) of the act, rules or permit conditions as described below.

Description of Violation(s):

Rule R649- See Attached Sheet

Additional information/materials attached ☒ (circle one)

This notice shall remain in effect until it is modified, terminated, or vacated by a written notice of an authorized representative of the director of the Division of Oil, Gas and Mining.

Compliance Deadline: Upon receipt of this mailing.  
Date of Service Mailing: 10/4/07 Time of Service Mailing: 1:00 pm ER

Dan Jensen  
Division's Representative

[Signature]  
Operator or Representative  
(If presented in person)

6/2005

Field Operations Manager

10/04/2007  
Crownquest Operating, LLC  
Bradford Canyon 1-10

Violation:

Rule R649-3-4 Permitting of Wells to be Drilled, Deepened or Plugged-back

An application to re-enter (APD) this well was received on 03/07/2007. Crownquest was notified that the application was incomplete and an exception location letter was needed. Crownquest drilled and completed the well without an approved APD from the State of Utah in violation of the above referenced rule. Crownquest is required to submit the exception location information upon receipt of this notice of violation. Failure to submit the required information will result in a request by the Division to appear for an informal meeting.

If you have any questions regarding this action, please call Dan Jarvis at 801-539-5338



JON M. HUNTSMAN, JR.  
Governor

GARY R. HERBERT  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil Gas and Mining

JOHN R. BAZA  
Division Director

October 15, 2007

CrownQuest Operating  
303 Wall, Suite 1400  
Midland, TX 79702

Re: Bradford Canyon 1-10 Well, 1690' FSL, 1850' FWL, NE SW, Sec. 10, T. 37 South,  
R. 24 East, San Juan County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-037-30826.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

cc: San Juan County Assessor  
Bureau of Land Management, Moab Office



**Operator:** CrownQuest Operating  
**Well Name & Number** Bradford Canyon 1-10  
**API Number:** 43-037-30826  
**Lease:** UTU 84683

**Location:** NE SW                      **Sec.** 10              **T.** 37 South              **R.** 24 East

### **Conditions of Approval**

**1. General**

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

**2. Notification Requirements**

Notify the division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dustin Doucet at (801) 538-5281    (801) 733-0983 home

**3. Reporting Requirements**

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

**4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.**

**5. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.**

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 6

**ENTITY ACTION FORM**

Operator: CrownQuest Operating, LLC Operator Account Number: N 2685  
Address: P.O. Box 2221  
city Farmington  
state NM zip 87499 Phone Number: (505) 325-5750

**Well 1**

API Number	Well Name	QQ	Sec	Twp	Rng	County
4303730826	Bradford Canyon 1-10	NESW	10	37S	24E	San Juan
Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date		
A	99999	16524	4/2/2007	11/27/07		
Comments: <u>PENN</u>						
<b>CONFIDENTIAL</b>						

**Well 2**

API Number	Well Name	QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date		
Comments:						

**Well 3**

API Number	Well Name	QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date		
Comments:						

**ACTION CODES:**

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

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**NOV 27 2007**

Robert R. Griffec  
Name (Please Print)  
Robert R. Griffec  
Signature  
Operations Manager 11/27/07  
Title Date



# CROWNQUEST

CROWNQUEST OPERATING, LLC

November 17, 2009

Dustin Doucet  
Utah Division of Oil, Gas & Mining  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

RE: Wildcat Status on Utah Wells

Dustin,

As discussed with you in our phone conversation we are requesting wildcat status on our Utah properties.

Per R649-3-35, enclosed is the information needed for final designation of wildcat status on the wells referenced below.

- Tank Canyon 1-9
- Raider Fee 1-17
- Bradford Canyon 1-10
- Anteater State 1-21X
- Explorer State 1-16
- SP Meyer #1

Please contact myself or Bob Griffie if more information is needed. Thank you in advance for your help in this matter.

Sincerely,



Staci Baysinger  
Financial Manager Northern Region  
CrownQuest Operating, LLC  
[sbaysinger@crownquest.com](mailto:sbaysinger@crownquest.com)

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DIV. OF OIL, GAS & MINING

## Bradford Canyon 1-10

1.2.1 The plat map is attached. There are no producing wells within a one mile radius of this well.

1.2.2 The attached well bore diagram shows the completed zones. All perforations are believed to contribute to the total production of the well.

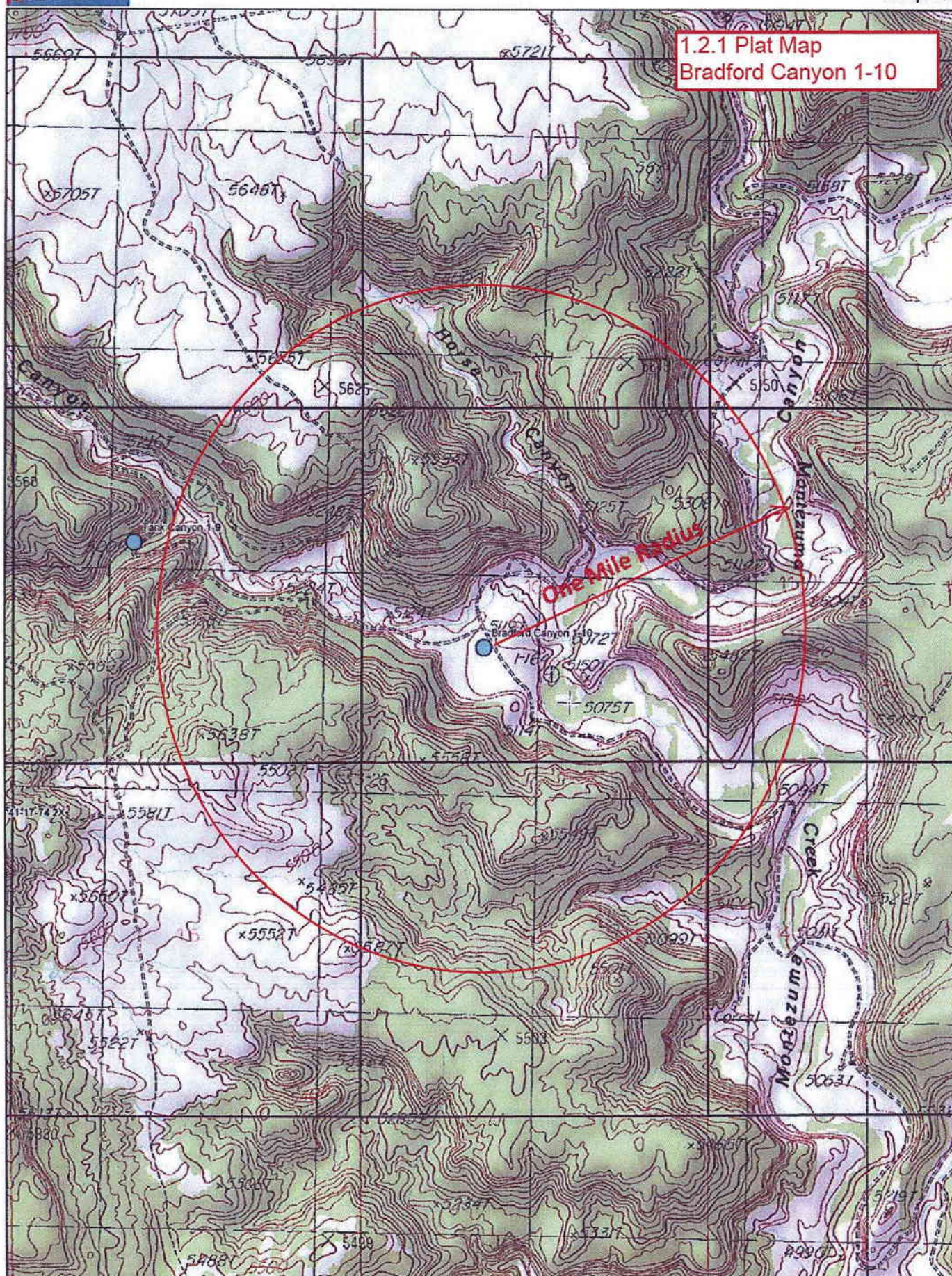
1.2.3 There are no wells in the designated area. The stratigraphic sequence is shown on the well bore diagram.

1.2.4 The specific geologic structure pertaining to this well is yet to be designated.

1.2.5 There are no wells in the designated area with which to compare bottom hole pressures.



## Bradford Canyon 1-10



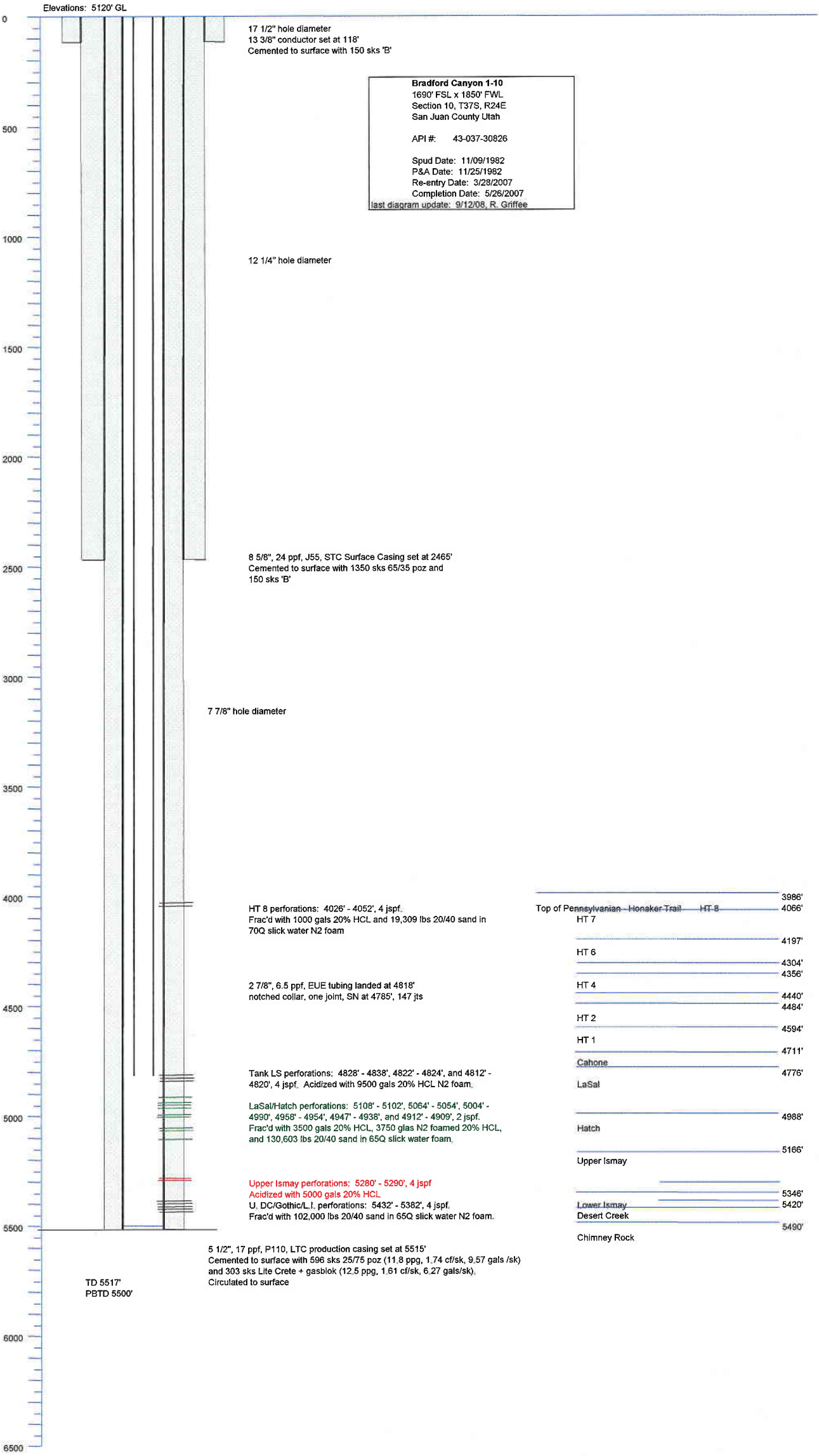
Data use subject to license.  
© 2004 DeLorme. XMap® 4.5.  
www.delorme.com

Scale 1 : 24,000

1" = 2,000.0 ft

Data Zoom 13-0





DIVISION OF OIL, GAS AND MINING  
**Wildcat Well Determination**  
**STATEMENT OF BASIS**

**Applicant:** CrownQuest Operating, LLC

**Location:** NESW Sec. 10 T37S, R24E, San Juan County, Utah

**WELL NAME:** Bradford Canyon 1-10 **API #:** 43-037-30826

**FINDINGS**

1. The subject well was spud on April 2, 2007. Total depth was reached on April 11, 2007 and the well was first produced on July 6, 2007.
2. The subject well currently produces from the Honaker Trail and Paradox formations from 4026' to 5482'.
3. The subject well was > 1 mile from any known production in all formations at the date of first commercial production on July 6, 2007.
4. No other wells have been drilled in the area of review. See Attachment A for summary of current wells within the one (1) mile area of review.
5. The Wildcat Tax Credit application was received about 2 years after completion of the subject well. Future submittals should be filed timely (see submittal requirements in R649-3-35-1).

**CONCLUSIONS**

Based on the findings above the Division has determined the Bradford Canyon 1-10 well was drilled into an unknown area for the Honaker Trail and Paradox formations. Although the request for wildcat well determination was received well after the completion of the well, no other requests for a wildcat determination have been received or approved by the Division within the area of review. Therefore, the Division finds that this well qualifies for the severance tax exemption under Section 59-5-102(2)(d) for wildcat wells. This determination was made in accordance with Oil and Gas General Conservation Rule R649-3-35 and the definition of a wildcat well in R649-1-1.

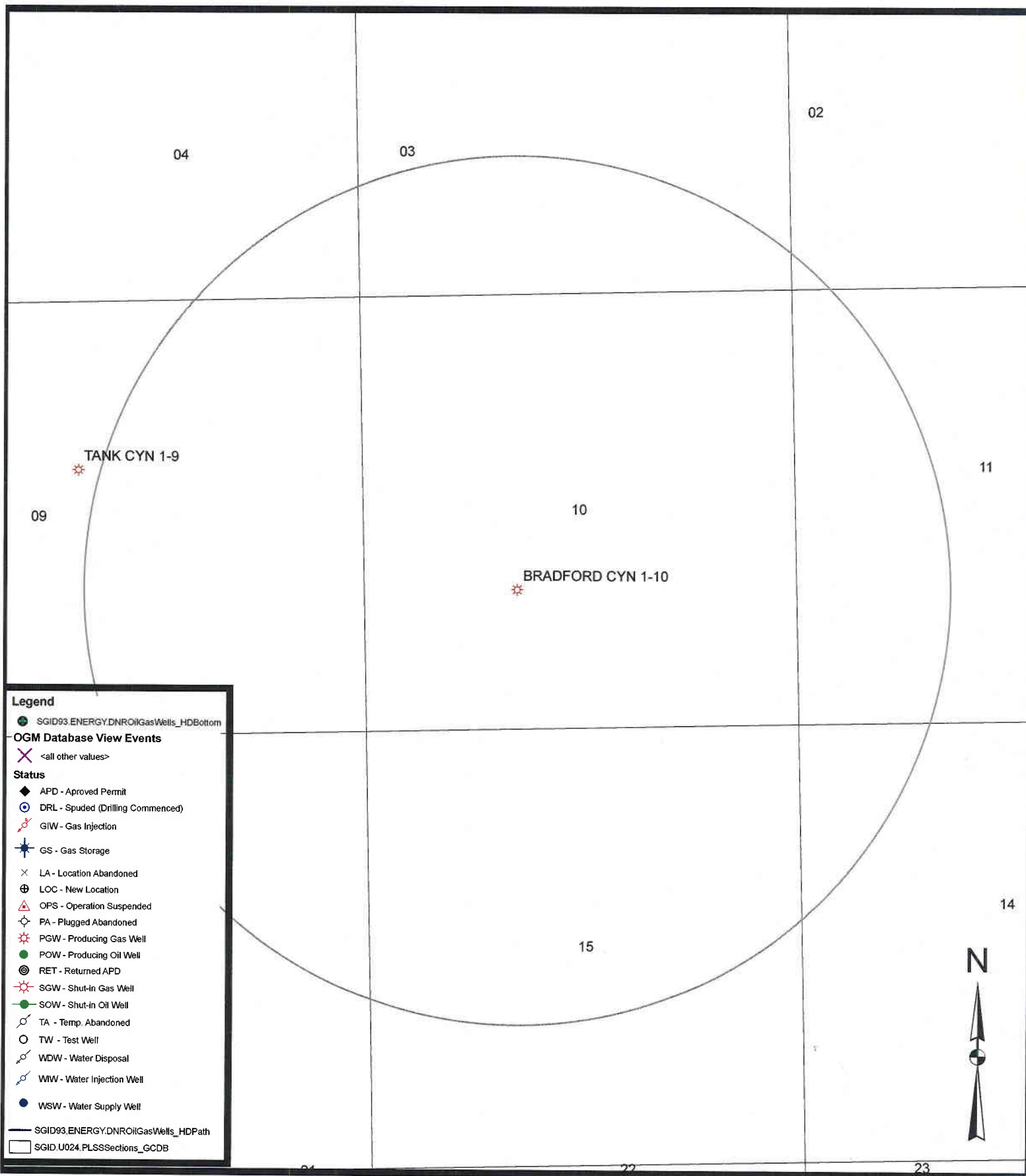
Reviewer(s): Dustin K. Doucet



Date: 12/17/2009

# Wildcat Designation Area of Review

## Bradford Canyon 1-10 Well



### 1 Mile Area of Review

[illegible]

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER:  
UTU 84683

**SUNDRY NOTICES AND REPORTS ON WELLS**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

7. UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL

OIL WELL ☐

GAS WELL ☒

OTHER

8. WELL NAME and NUMBER:

Bradford Canyon 1-10

2. NAME OF OPERATOR:

CrownQuest Operating, LLC

9. API NUMBER:

4303730826

3. ADDRESS OF OPERATOR:

P.O. Box 2221

CITY Farmington

STATE NM

ZIP 87401

PHONE NUMBER:

(505) 325-5750

10. FIELD AND POOL, OR WILDCAT:

Wildcat

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 1690' FSL x 1850' FWL

COUNTY: San Juan

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESW 10 37S 24E

STATE:

UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>wildcat designation</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

CrownQuest Operating LLC requests wildcat designation for this well.

NAME (PLEASE PRINT) Robert R. Griffiee

TITLE Operations Manager

SIGNATURE

DATE 11/30/2009

(This space for State Approval)

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

DATE: 12/17/09

BY: [Signature]

(See Instructions on Reverse Side)

(5/2009)

\* See attached Statement of Basis  
CC: Tax Commission

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NOV 30 2009

DIV. OF OIL, GAS & MINING



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU 84683
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> CROWNQUEST OPERATING, LLC		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 303 Veterans Airpark Ln Ste 5100 , Midland, TX, 79705		<b>8. WELL NAME and NUMBER:</b> BRADFORD CYN 1-10
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1690 FSL 1850 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NESW Section: 10 Township: 37.0S Range: 24.0E Meridian: S		<b>9. API NUMBER:</b> 43037308260000
<b>PHONE NUMBER:</b> 432 818-0300 Ext		<b>9. FIELD and POOL or WILDCAT:</b> BRADFORD CYN
<b>COUNTY:</b> SAN JUAN		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 11/21/2016  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION         </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input checked="" type="checkbox"/> OTHER         </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION         </div> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Well is back on production as of November 21, 2016.		
Accepted by the Utah Division of Oil, Gas and Mining <b>FOR RECORD ONLY</b> December 23, 2016		
<b>NAME (PLEASE PRINT)</b> Jeremy Divine	<b>PHONE NUMBER</b> 432 557-6778	<b>TITLE</b> Foreman
<b>SIGNATURE</b> N/A	<b>DATE</b> 12/13/2016	